

AD-A100 588

COAST GUARD WASHINGTON D C OFFICE OF MERCHANT MARINE--ETC F/G 13/10
STATISTICS OF CASUALTIES, 1979.(U)
SAC-2

STATISTICS OF CASUALTIES. 1979.(U)

DEC 80
LIEGE M-

UNCLASSIFIED **USCG-M-1-81**

NL

1 UF 2
4/10/588

1-CG-M-1-81

COAST GUARD, WASHINGTON, DC

ADA100588

Statistics of Casualties,

1979

DTIC
ELECTED
S JUN 25 1981 D

The U.S. Coast Guard annually presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry, and the Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Coast Guard Officer in Charge, Marine Inspection. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

- (a) actual physical damage to property in excess of \$1,500;
- (b) material damage affecting the seaworthiness or efficiency of a vessel;
- (c) stranding or grounding (with or without damage);
- (d) loss of life;
- (e) injury causing any person to remain incapacitated for a period in excess of 72 hours, except injury

to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

The statistical summary on the following pages represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1979, which ended September 30, 1979. Statistics concerning noncommercial recreation boating accidents will be published separately in a future issue of the Proceedings.

This summary also includes those casualties serious enough by reason of dollar damage or death/injury to personnel to warrant the convening of a Marine Board of Investigation (specifically, the collision between the USCG CUYAHOGA and the Argentine M/V SANTA CRUZ on Chesapeake Bay, which resulted in the loss of 11 lives).

Every event involving a vessel or her personnel which meets any of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of report-

able casualties are not investigated by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. With the cooperation of the masters, owners, and agents of commercial vessels, many of the unreported casualties can be investigated.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

The Information and Analysis Staff of the Office of Merchant Marine Safety will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these statistics should be addressed to the Commandant (G-MA/16), U.S. Coast Guard, Washington, DC 20593.

DTIC FILE COPY

166

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

81514036

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By <u>Ref Ltr. on File</u>	
Distribution/	
Availability Codes	
Avail and/or	
Dist	Special

Casualties to Commercial Vessels

October 1, 1978, to September 30, 1979
Fiscal Year 1979

	Collisions: crossing, meeting and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions all others	Fathoming and/or fire--cargo	Fathoming and/or fire--passenger	Fathoming and/or fire--pressure vessels, boilers	Fathoming and/or fire--structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Founding, capsizing, and flooding	Heavy weather damage	Rain damage*	Material failure--structure and equipment	Material failure--machinery and engineering equipment	Causality not otherwise classified	Total
--	--	--	----------------	-----------------------------------	-----------------------	------------------------------	----------------------------------	--	---	---------------------------------	------------------------------------	-----------------------------------	----------------------	--------------	---	---	------------------------------------	-------

Number of casualties 337 313 10 650 371 4 9 7 199 430 755 547 1 3 332 840 157 4665
Number of vessels involved 1003 893 26 2280 633 4 13 7 201 721 1282 673 1 3 359 547 506 8159
Number of inspected vessels involved 285 256 8 395 222 3 1 7 50 201 430 76 1 2 216 229 83 2464
Number of unexpected vessels involved 718 637 18 885 411 1 13 157 521 852 597 1 1 143 318 423 5485

PRIMARY CAUSE

Personnel fault:																		
Pilots—State	17	19	.....	36	4	.....	.....	.....	9	51	2	.....	.....	.....	1	139		
Pilots—Federal	4	8	.....	20	3	.....	.....	.....	10	22	1	.....	.....	1	69			
Licensed officer—Documented seaman	188	144	4	368	129	.....	1	.....	4	197	275	48	.....	13	6	23	1380	
Unlicensed—Undocumented persons	80	47	3	32	35	.....	1	.....	6	78	83	42	.....	1	.....	18	430	
All others	12	20	1	35	13	1	.....	.....	10	10	26	14	.....	2	8	2	19	177
Calculated risk	2	.....	2	2	.....	.....	.....	.....	2	3	.....	5	.....	5	.....	1	11	
Restricted maneuvering room	2	.....	2	3	.....	.....	.....	.....	2	3	.....	5	.....	5	.....	1	3	
Storms—adverse weather	8	8	2	15	34	.....	.....	.....	26	31	54	.....	1	84	3	18	249	
Unusual currents	1	2	.....	9	.....	.....	.....	.....	4	3	4	.....	1	1	1	1	25	
Sheer, auction, open cushion	4	1	.....	1	.....	.....	.....	.....	3	9	1	.....	1	.....	1	20		
Depth of water less than expected	.....	.....	3	3	.....	.....	.....	.....	18	143	.....	.....	.....	.....	.....	167		
Failure of equipment:	19	46	.....	64	31	2	4	6	79	44	59	75	1	147	505	23	1105	
Unintentionally—lack of maintenance	1	1	.....	4	65	.....	.....	.....	7	5	23	.....	9	1	4	118	6	
Vessel damage—submerged object	.....	3	9	3	.....	.....	.....	.....	5	114	256	12	.....	10	1	37	90	
Inadequate tug assistance	.....	3	9	3	.....	.....	.....	.....	5	114	256	12	.....	10	1	21	351	
Fault on part of other vessel or person	665	581	16	843	265	.....	4	8	296	531	211	.....	65	9	243	3543		
Unknown—insufficient information	22	11	.....	33	40	1	3	1	99	15	37	183	.....	26	20	154	645	

VESSEL TYPE

Inspected vessels:																		
Passenger and ferry—large	3	5	.....	6	2	.....	.....	.....	2	.....	6	2	.....	1	9	2	38	
Passenger and ferry—small	23	19	.....	6	12	.....	1	.....	12	25	8	22	.....	7	38	2	177	
Freight	57	68	3	95	68	.....	1	.....	2	13	28	70	27	1	2	108	67	
Cargo Barge	16	14	.....	22	25	.....	.....	.....	10	19	27	3	.....	9	2	2	130	
Tankship	15	36	.....	37	20	.....	.....	5	11	15	13	4	.....	59	75	13	351	
Tank Barge	161	92	5	217	61	2	.....	.....	5	114	256	12	.....	10	1	37	90	
Public	3	8	.....	2	.....	.....	.....	5	2	.....	2	.....	3	1	2	21		
Miscellaneous	7	14	.....	9	31	.....	.....	5	9	.....	6	.....	11	8	2	102		
Uninspected vessels:																		
Fishing	103	93	6	28	66	1	4	.....	74	118	145	259	.....	83	256	35	1272	
Tug/Towing	323	217	5	496	186	.....	7	.....	47	223	368	139	.....	32	28	38	2109	
Foreign	80	120	4	86	41	.....	.....	.....	15	34	112	4	.....	10	23	29	558	
Other	212	207	3	274	118	.....	2	.....	21	146	227	195	1	18	11	321	1756	

GROSS TONNAGE

500 tons or less	529	455	16	514	341	1	11	.....	140	351	504	520	.....	1	136	339	214	4072
Over 500 to 1,000 tons	201	151	6	328	94	.....	.....	.....	21	196	307	117	.....	28	12	192	1646	
Over 1,000 to 10,000 tons	180	156	4	281	133	3	2	.....	22	119	283	29	.....	66	52	50	1390	
Over 10,000 tons	93	131	4	147	65	.....	.....	7	24	56	188	7	1	2	129	144	50	1048

LENGTH

Less than 100 feet	435	381	12	397	267	1	9	.....	120	295	674	457	.....	105	318	190	3415	
100 to less than 300 feet	449	320	6	676	266	2	4	.....	52	348	615	204	.....	3	82	46	257	3228
300 to less than 500 feet	35	55	4	47	30	.....	.....	8	26	56	3	.....	27	13	16	320		
500 feet and over	84	137	4	160	70	1	.....	7	27	53	197	9	3	2	141	170	43	1096

AGE

Less than 10 years	471	371	10	504	290	1	5	2	72	267	834	167	1	1	148	203	147	3954
10 to less than 20 years	280	205	6	348	126	2	4	1	45	202	318	167	.....	1	75	87	119	1904
20 to less than 30 years	83	125	1	179	68	1	2	3	28	98	188	120	1	1	48	74	57	1005
30 years and over	159	192	10	229	149	.....	3	1	62	115	242	218	.....	88	183	103	1034	

Casualties to Commercial Vessels -- Continued

October 1, 1978, to September 30, 1979
Fiscal Year 1979

Death/Injuries Due to a Vessel Casualty

October 1, 1978 to September 30, 1979
Fiscal Year 1979

Deaths/Injuries Due to a Vessel Casualty -- Continued

October 1, 1978, to September 30, 1979
Fiscal Year 1979

	Collisions crossing, meeting and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with persons and bridges	Collisions; all other	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—pressure vessels, boilers	Explosion and/or fire—structure, equipment, all others	Founding with damage to vessel	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total		
Sheer, suction, beam cushion															0		
Depth of water less than expected															0		
Failure of equipment															0		
Loss of worth—lack of maintenance															0		
Floating debris—submerged object															0		
Inadequate lighting assistance															0		
Failure on part of other vessel or person															0		
Unknown—insufficient information															0		
VESSEL TYPE																	
Inspected vessels:																	
Passenger and ferry—large	1/1			1/8											1/16		
Passenger and ferry—small	1/3	2			1/3										4/16		
Freight	1/2				1/2			4/6				3	1		8/16		
Large Barge								7/1							0/16		
Tank Barge	1											3	2		1/16		
Tank, Large												1			2/16		
Public							2/1								2/16		
Miscellaneous	1/2														1/16		
Uninspected vessels:								7/2				1			2/16		
Fishing	1/2	3	1/1		4/1			3/6	6/4	1/1	27/4				85/23		
Tug Towing	1/4	2			1/4	1/3		0		2/5		12/3			19/23		
Foreign	1/2								7/8				1/1		10/23		
Other	21/7	7/3	1		1/5			7/3			14/4		1/2	3	51/23		
PARTICULARS OF PERSON DECEASED INJURED																	
Papers of deceased/injured:																	
Licence--Coast Guard	1/5	2			2/2	1/3			1/1	1/3		5/2			3	8/19	
Document--Coast Guard	1/3								1/2		2/1		1/4	1	3/11		
No licence or document	22/13	2/6	1/1	2/10	6/9	3/3	1/1	16/17	6/4	2/2	97/9		5/4	4/2	170/79		
Other—unknown—foreign	1													1/1	9/9		
Status or capacity of vessel:								7/8			7/8						
Passenger	7/8	2	1/1	7/8	7/5				1/1	1/1		6		1/1	15/26		
Longshoreman—harbor worker					1/1		3/7		3/7				3/1		9/2		
Crew member	17/13	2/3	1/1	1/2	6/7		1/1	1/1	18/2	6/3	2/2	99/12		2/6	14/32		
Others					1/1		1/1		1/1			1		1/1	9/9		
Activities engaged in:																	
Off duty	4/2	2			2/2			10/4			5/				21/10		
Deck department duties	6/9	1/1			1/3	3/3		1/1	7/8	1/1	1/2	14/8		2/3	3/1	38/39	
Engine department duties	3/				1/3			1/1	7/8				1/	1/3	4/10		
Steward department duties															1/1		
Handling cargo															3/1		
Fishing	4/	2/1									3/1				31/4		
Drilling															7/4		
Passenger															7/4		
Other and unknown	5/6	2/2	1/1	7/8	7/5			1/1	1/1		3/1				12/26		
Location of vessel:																	
Great Lakes									7/4						7/4		
Western Rivers		7/8	2		1/1	2/2			1/1			7/1			20/13		
Inland		15/12	5/	1/1	1/11	1/10	2/1	1/1	14/24	3/2	2/2	63/8		3/6	3/3	4/1	111/89
Ocean					2/1	1/1	3/		1/1			34/2		2	1/2	1	42/8
Foreign and other		2/1					1/		1/	3/2		7/1		3	1/1	1/1	10/5
PART OF BODY INVOLVED																	
Head	9/7	1/1	1/1		1/3				2/6		1/1	1/2		2/3	3/1	7/1	17/26
Back	1/1				1/3	1/5			1/1		1/1					1/2	
Chest	1/8				1/1	1/1			1/1		1/1					1/14	
Extremities	1/3	1/1			1/5				1/1	1/1		1/2		2	1/3		
Bladder									1/2	1/1		1/2		1		1/1	
Drowning																1/1	
Unspecified and miscellaneous	13/	4/	1/1	2/	5/	1/1			6/	6/	1/1	100/		3/	6/1	166/1	
	2/2	7/4		1/3	1/3				15/10	2/		3/7		1/1	1/1	25/33	

Deaths/Injuries Due to a Vessel Casualty -- Continued

Deaths on Board Commercial Vessels Not Involving a Vessel Casualty -- Continued

October 1, 1978, to September 30, 1979

Fiscal Year 1979

PART OF BODY INVOLVED	Natural cause																				
	Homicide	Suicide	Hangup	Slips and falls—incidents	Slips and falls—preways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects (falling, dropped or moving)	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns (other than electrical) and burns	Caught in lines, chains, or wire ropes	Pinchings or crushing	Heavy weather	Overexertion, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alterations and medications	Unknown or insufficient information	Total
Head	3	1	3	1	7	2	5	11	2					1				3	1	110	46
Back																					
Chest	3		1					6													
Extremities																					
Bliss																					
Drowning	106			2	1	5	105	3	4	6	1			1	2					110	46
Unspecified and miscellaneous	1	2			1	1	2	9	11					4	1	3				14	46

Personnel Injuries on Board Commercial Vessels Not Involving a Vessel Casualty

October 1, 1978, to September 30, 1979

Fiscal Year 1979

CAUSE OF INJURY	Natural cause																						
	Homicide	Suicide	Hangup	Slips and falls—incidents	Slips and falls—preways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects (falling, dropped or moving)	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns (other than electrical) and burns	Electrical shock and burns	Cought in lines, chains, or wire ropes	Pinchings or crushing	Heavy weather	Overexertion, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alterations and medications	Unknown or insufficient information	Total
Number of injuries	5			111	17	251	135	16	5	395	4	114	50	43	6	60	47	3	205	64	47	46	1536
Number of uninspected vessels involved	1			12	15	14	12	1	45	5	8	4	42	39	6	27	5	19	10	8	12	397	
Number of inspected vessels involved	4			99	17	236	122	4	4	261	4	109	42	33	41	3	186	54	41	34	1239		
Physical deficiency or handicap				1	1	2	1			2	1	1				1		1	1			10	
Unsafe movement or posture				1	3	1	2			1	1	1				17		3	34				
Psychological—immaturity, insanity, unsafe practice				12	10	46	1	11	13		1	4	4	82	4	1	3	44	44	44			
Violation of law or regulation				21	8	2	1	1	48	7	6	11	15	5		12	5	3	104				
Human errors				57	12	141	67	3	2	177	1	73	38	26	3	37	35	1	75	32	16	803	
Decks slippery or cluttered				8	3	57	1			3	2					6	2					82	
Weather conditions				5	13	3			10	16	12	1		2	1	2	6	4				63	
Poor maintenance or housekeeping				1		3				5												10	
Inadequate lighting						2				1												3	
Inadequate rails or guards										2												2	
Failure of equipment						2	1	3	8	11	31	2		3	1	1	1	1	1			68	
Inadequate supervision						1				3												6	
Inadequate life preservers																						0	
Inadequate tools or equipment											6		1	1								0	
Inadequate protective equipment						1				1		1		2	1							3	
Improper use of tools or equipment																						0	
Miscellaneous causes																	5	7	1	21	47		

Personnel Injuries on Board Commercial Vessels Not Involving a Vessel Casualty -- Continued

October 1, 1978, to September 30, 1979
Fiscal Year 1979

	Natural cause	Homicide	Struck	Inapparance	Slope and fall—holes	Slope and fall—grogging	Slope and fall—on deck	Slope and fall—other	Falls from vessel—into water	Falls into hole or tank	Struck by object(s) falling, dropping, or moving	Exposure and aspiration	Struck against, crushed, impaled, or objects	Operating machinery and tools	Rope (either from electrical and cables	Rope in line, chain, or wire	Pinch or crushing	Heavy vehicles	Overexertion, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alternative and incidental	Unknown or insufficient information	Total
TYPES OF VESSELS INVOLVED																							
Inspected vessels																							
Passenger and farm—large	1		1		9	4			4	1						1		2	5				26
Passenger and farm—small	1		3		6	2			3	1						2	1						19
Freight ships and barges	2		74	13	162	95	3	2	183	1	91	25	18	2	16	25	2	145	42	32	24	95	
Tug boats and barges	1		11	2	46	19			1	34		8	7	19	5	6		27	6	6	9	27	
Public			7	2	3	1			3	1						2		6	3	2		41	
Miscellaneous			3		10	4	1		30	2	5	3	3	1	2	5	3	4	4	4		72	
Uninspected vessels																							
Fishing	1		3		9	5			19		3	3	1		19	4		2	5	1	4	75	
Tugs			5		6	5	2		20		1	1	1		6	2		13	4	4	4	73	
Foreign						1	2		2								1		1	2		12	
Miscellaneous			4		3	2	11	1	4		1	3		2		2		3	1	1		37	
TIME OF DAY																							
Daytime	3		71	6	165	94	12	2	215	3	82	46	31	4	41	36	2	152	46	23	30	1052	
Nighttime	1		34	10	67	35	3	1	69	1	24	9	8	2	16	9	1	29	16	22	4	380	
Twilight	1		6	2	19	1			22		6	3	4		3	2		24	8	2	12	123	
PARTICULARS OF PERSON INJURED																							
Papers of person injured																		1	20	8	6	7	215
License or permit	1		17	1	25	19	1	1	47	1	13	11	15	2	5	3	1	180	45	38	29	108	
Document—Coast Guard	2		61	16	201	99	3	3	101		95	29	20	2	28	37	1	14	10	3	8	225	
No license or document	2		13		25	18	12	1	56	3	9	6	2	27	7	1					2	10	
Other—unknown—foreign			1	2					2		1	1					1						
Status or capacity of vessel																							
Passenger	1		6		8	4			2	1	1						1					24	
Longshoreman—harbor worker																						1	
Crewmember	4		103	17	238	129	8	5	288	1	110	45	40	8	58	44	2	201	62	47	44	1450	
Other			2		5	3	10		16	2	3	5	3		2	3	4	2	7	1	61		
Activity engaged in																							
On duty	1		14	15	22	17		1	5		11		1		2	4		15	3	10		125	
Dock department duties			40	2	110	70	4	3	188		61	16	6		40	13	1	68	27	5	35	262	
Engine department duties	2		35		58	38		1	81		25	28	3	2	1	9	1	57	14	2	6	337	
Steward department duties			9		41	10			17		7		3	2	11	1	24	8	10	2	6	151	
Handling cargo			1		3						2											1	
Fishing	1				1				12		3		1	1	1	1	1	2				45	
Drills			3		3	11		5		4	1						3	1				39	
Passenger	1		6		8	4		2		1							1					21	
Other and unknown			6		17	8	1		14	4	5	4	5		1	8		6	9	12	15	115	
Location																							
Great Lakes			7		8	7			15		3	3	2		3	1		12	8			63	
Western Rivers			3		6	3	2	1	9		2	1	2		3		6	3	2			42	
Island	2		35	6	71	36	2	2	106	3	26	18	19	3	35	16	2	43	12	14	27	673	
Oceans	1		24		43	31		1	70	1	24	8	21	2	9	13	1	48	18	7	7	267	
Foreign and other	2		42	11	85	59	12	1	106		49	20	9	1	12	16		98	30	23	17	583	
PART OF BODY INVOLVED																							
Head			21	3	40	20			70		10	2	10	1	1	1	17	4	30	8		263	
Back			27	1	42	13	10	2	10	1	10	1	1			1	20	1				205	
Chest			13	2	31	22	4	1	17	10	3	3	2		2	1	1	21	8	4		135	
Extremities			47	11	125	74	3		102	2	62	44	30	2	36	47		74	55	12	20	63	
Limbs			1																				
Drowning			4		7				8	1	3	8	3	1	3	1	3	3	12	3		36	
Unspecified and miscellaneous																							

Statistics of Casualties

1978

Annually the U.S. Coast Guard presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry, and the Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Coast Guard Officer in Charge, Marine Inspection. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

- (a) actual physical damage to property in excess of \$1,500;
- (b) material damage affecting the seaworthiness or efficiency of a vessel;
- (c) stranding or grounding (with or without damage);
- (d) loss of life;
- (e) injury causing any person to

remain incapacitated for a period in excess of 72 hours, except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

The statistical summary on the following pages represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1978, which ended September 30, 1978. Statistics concerning noncommercial recreation boating accidents can be found in CG-357, Boating Statistics, published by the Office of Boating Safety.

During this particular fiscal year period, there were no casualties that warranted the convening of a Marine Board of Investigation.

Every event involving a vessel or her personnel which meets any of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of reportable casualties are not investigated

by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. Through the cooperation of the masters, owners, and agents of commercial vessels many of the unreported casualties can be investigated.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

The information and analysis Staff of the Office of Merchant Marine Safety will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these statistics should be addressed to Commandant (G-MA/83), U.S. Coast Guard, Washington, DC 20590.

Statistical Summary of Casualties to Commercial Vessels

Exhibit 10 DDC

Statistical Summary of Casualties to Commercial Vessels - Continued

		Collisions, crossings, meeting and overtaking	Collisions while anchoring, docking or unloading	Collisions, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire--cargo	Explosion and/or fire--results	Flood	Explosion and/or fire--pressure vessels, boilers	Explosion and/or fire--structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Fouling, capsizing, and flooding	Cargo damage	Material failure--structure and equipment	Material failure--machinery and engineering equipment	Casualty not otherwise classified	Total
LOCATION OF CASUALTY																			
Inland--Atlantic	36	32	80	1	103	63	42	2	3	2	1	17	15	2	31	36	14	736	
Inland--Gulf	123	12	20	1	133	42	42	1	1	1	1	15	15	1	27	27	6	778	
Inland--Pacific	20	8	15	1	45	13	42	1	1	1	1	15	15	1	25	25	6	596	
Ocean--Atlantic	17	9	6	1	15	13	42	1	1	1	1	16	16	1	52	52	6	309	
Ocean--Gulf	18	8	9	1	13	21	42	1	1	1	1	19	19	1	23	23	5	327	
Ocean--Pacific	28	8	9	1	68	21	32	1	1	1	1	23	23	1	200	200	6	496	
Great Lakes	5	6	27	1	89	32	32	1	1	1	1	19	19	1	5	5	6	260	
Western Rivers	51	6	12	1	17	5	5	1	1	1	1	15	15	1	36	36	5	672	
Ocean--other	5	10	10	1	17	5	5	1	1	1	1	15	15	1	12	12	2	121	
Foreign waters																		75	
TIME OF DAY																			
Daylight	160	137	88	1	323	203	6	6	7	7	104	23	175	2	31	36	14	2313	
Nighttime	120	88	18	1	260	35	2	2	2	2	11	23	23	1	5	6	6	1585	
Twilight	19	18	1	1	33	10	1	1	1	1	1	23	23	1	3	3	6	367	
ESTIMATED LOSSES (\$1000s)																			
Vessel	16311	6908	5	12795	9100	2716	6776	7	233	10	17375	41305	293	2	31	36	14	736	
Cargo	3678	293	0	1777	998	80	35	7	2967	612	2776	515	15	2	29	36	6	596	
Property	1225	1642	0	1699	4377	9999	665	10	671	10	1275	163	63	9	52	52	6	309	
VESSELS TOTALLY LOST																			
Inspected	3	1	1	1	7	5	2	1	0	1	0	28	1	10	3	1	6	26	
Uninspected	12	3	1	1	5	2	1	1	31	1	97	1	1	1	1	1	6	196	

Statistical Summary of Deaths/Injuries Due to a Vessel Casualty

		Collisions, crossings, meeting and overtaking	Collisions while anchoring, docking or unloading	Collisions, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire--cargo	Explosion and/or fire--results	Flood	Explosion and/or fire--pressure vessels, boilers	Explosion and/or fire--structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Fouling, capsizing, and flooding	Cargo damage	Material failure--structure and equipment	Material failure--machinery and engineering equipment	Casualty not otherwise classified	Total
1 October 1977 to 30 September 1978 Fiscal Year 1978																			
Number of casualties	27	6	0	0	3	6	0	0	0	0	1	5	5	0	3	3	0	34	
Number of inspected vessels involved	123	21	88	0	16	11	0	0	0	0	1	19	15	5	1	1	0	29	
Number of uninspected vessels involved	1225	88	0	0	16	6	0	0	0	0	1	17	15	5	1	1	0	23	
Number of persons deceased/injured	-13/32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PRIMARY CAUSE																			
Personnel fault:																			
Pilot--State																			
Pilot--Federal																			
Licensed officer--Documented seaman																			
Unlicensed--Undocumented persons																			
All others																			
Calm sea																			
Restricted maneuvering room																			
Storms--adverse weather																			
Unusual currents																			

Statistical Summary of Deaths/Injuries Due to a Vessel Casualty - Continued

		1 October 1977 to 30 September 1978 Fiscal Year 1978																
		Collision, crossing, meeting and over-taking	Collision while anchored, adrift, or underway	Collision, fog	Collision with pier and bridge	Collision, all others	Explosion and/or fire--cargo	Explosion and/or fire--people	Explosion and/or fire--structure, receptacles, boilers	Explosion and/or fire--structure, equipment, all others	Grounding without damage to vessel	Founding, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure--structure and equipment	Material failure--machinery and engineering equipment	Casualty per occurrence classified	Total
Sheer, suction, tank cushion																	0	
Depth of water less than expected		1															26	
Failure of equipment																	5	
Failure to report--lack of maintenance																	1	
Floating debris--submerged object																	0	
Inadequate tug assistance																	23	
Fault on part of other vessel or person																	27	
Unknown--insufficient information		9	1	3	1												27	
VESSEL TYPE																		
Inspected vessels:																		
Passenger and ferry--large																	0/2	
Passenger and ferry--small		3/2															6/12	
Freight		5/3															1/12	
Cargo Barge																	0/0	
Drift																	0/10	
Tank Barge																	3/3	
Public																	0/0	
Miscellaneous																	0/0	
Unexpected vessels:																	0/0	
Tug/Towing		1/2	1/1		1/1	1/3	1/3	1/1	1/1	2/3	1/1	3/1	77/2				85/19	
Foreign		1/5				1/1			2/3	1/2	1/1	13/3					20/18	
Other		6/13	7/1			1/1		1/1	2/2	1/1	1/1	26/5					4/12	
PARTICULARS OF PERSON DECEASED/INJURED																		
Papers of deceased/injured:																		
Licensed by Coast Guard		3/1				1/1	1/1	2/1	1/1	1/1	1/1	6/2					12/7	
Documented by Coast Guard		5/6				1/1	1/1	1/1	1/1	1/1	1/1	7/3					1/16	
Documented or document												106/9					1/12	
Other--unspecified--foreign												1/1					66/11	
Status or capacity on vessel:																	3/7	
Passenger		1/15	3/1			1/1	1/1	1/1	1/1	1/1	1/1	13/2					24/26	
Longshoreman--harbor worker																	1/1	
Crewmember		19/16	3/1			1/1	1/1	1/1	1/1	1/1	1/1	104/12					50/69	
Activity engaged in:																	4/3	
Off duty		1/2	3/1														6/11	
Deck department duties		8/7	3/1			1/6	1/2	1/2	1/1	1/4	1/1	2/3					53/48	
Engine department duties		3/1				1/1	1/1	1/1	1/1	1/1	1/1	33/2					51/12	
Reward department duties		1/1															1/1	
Handling cargo																	2/1	
Fishing		1/3															26/10	
Drills																	1/1	
Passenger		1/13	4/1			1/1	1/1	1/1	1/1	1/1	1/1	21/1					2/2	
Other and unknown		5/2															18/23	
Location:																	70/13	
Great Lakes			2/1														3/6	
Western Rivers		1/3	4/2			1/1											16/8	
Inland		9/19	2/1			1/1	1/1	1/1	1/1	1/1	1/1	11/1					23/73	
Ocean		1/1										78/9					21/20	
Foreign and unspecified		3/9										18/6					16/12	
PART OF BODY INVOLVED																		
Head		1/6	3/1			1/1	1/3			4/9	1/1	1/1					8/16	
Back		1/6								1/2	1/1	1/1					7/14	
Chest		1/3								1/1	1/1	1/1					1/1	
Extremities		7/8				1/3	1/3	1/2		1/1	1/1	1/1					7/20	
Ulnas												1/1					1/1	
Drowning		10/1	4/2			1/1				2/1	4/1	3/1	86/1				116/24	
Unspecified and miscellaneous		7/9	1/1				4/3	1/1		1/1	33/7					5/1		

THIS PAGE IS
FROM THE
COAST GUARD
STATISTICAL
SUMMARY
OF VESSEL
CASUALTIES

Statistical Summary of Deaths on Board Commercial Vessels Not Involving a Vessel Casualty

		1 October 1977 to 30 September 1978 Fiscal Year 1978																							
		Natural cause	Homicide	Suicide	Drunk or醉	Straight and falls--fallers	Straight and falls--dismenage	Straight and falls--on deck	Straight and falls--other	Falls from vessel--into water	Falls onto rocks or land	Struck by object in falling--dropped or moving	Exposure and asphyxiation	Struck against, crushed, dumped etc to objects	Operating machinery and tools	Bangs and cracks (other than electrical)	Electrical shock and burns	Caught in forces, Name or wire ropes	Pitching or rolling	Heavy weather	Construction, claims and actions	Circumstances, deaths and survivors	Alterations and modifications	Unknown or insufficient information	Total
Number of deaths		118	3	6	3	8	1	0	10	6	36	12	10	1	2	0	0	0	0	0	10	319			
Number of uninspected vessels involved		39	2	2	2	6	1	0	0	19	19	15	5	1	0	0	0	0	0	0	5	139			
Number of inspected vessels involved		79																							
CAUSE OF DEATH																									
Intoxication																						8			
Physical deficiency or handicap																						115			
Unsafe movement or posture																						14			
Psychological--immaturity, insanity																						1			
Unsafe practice																						1			
Violations of law or regulation																						1			
Human error																						1			
Decks slippery or cluttered																						9			
Weather conditions																						2			
Poor maintenance or housekeeping																						2			
Inadequate lighting																						2			
Inadequate equipment or guards																						2			
Failure of equipment																						2			
Inadequate supervision																						2			
Inadequate life preservers																						2			
Inadequate tools or equipment																						2			
Inadequate protective equipment																						2			
Improper use of tools or equipment																						2			
Miscellaneous causes																						3			
TYPES OF VESSELS INVOLVED																						53			
Inspected vessels:																									
Passenger and ferry--large	11	2	2	1																		25			
Passenger and ferry--small	18				1																	25			
Freight																						0			
Cargo Barge	32					3																39			
Tankship																						0			
Tug/Barge	15				1																	25			
Pusher																						1			
Miscellaneous	3																					14			
Uninspected vessels:																						52			
Fishing	15				2	1															2				
Tug/Towing	11					6	1														19				
Foreign	10		1																		34				
Other	3																				2				
TIME OF DAY																									
Daytime	70	2	3	2	3																2	175			
Nighttime	63	1		3	1																6	125			
Twilight	3																					25			
PARTICULARS OF PERSON DECEASED																									
Papers of deceased:																									
Licensed by Coast Guard	25																					31			
Documented by Coast Guard	30	1			1	2															6	51			
No license or document	59	2	6	2	9																6	216			
Other--unknown--foreign	6				2	1															18				
Status or capacity on vessel:																									
Passenger	37	2	2	1	2																	61			
Longshoreman--harbor worker																						25			
Crewmember																						17			
Other	78	1	2	2	6	1															34				
Activity engaged in:																									
Off duty	62	1				2																55			
Deck department duties	17					2	3														2	91			
Engine department duties	9																					17			
Stevedore department duties	3																					3			
Handling cargo																						25			
Fishing	16																					34			
Drills																						6			
Passenger	26	2	2	1	1	1															55				
Other and unknown	5		1																		51				
Locations:																									
Great Lakes	7																					15			
Western Rivers	9																					68			
Inland	67	3	3	7	1																3	189			
Ocean	20																					29			
Foreign and unspecified	15																					38			

**Statistical Summary of Deaths on Board Commercial Vessels
Not Involving a Vessel Casualty - Continued**

1 October 1977 to 30 September 1978 Fiscal Year 1978		Natural cause	Homicide	Suicide	Disappearance	Skip and falls—sledges	Skip and falls—groggery	Skip and falls—on deck	Skip and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by object(s) falling, dropping, or hitting	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Name and cause (other than electrical)	Electrical shock and burns	Cought in lines, chains or wire	Fishing or crusing	Heavy weather	Confinement, disease and injuries	Cards, instruments, inventories and documents	Affections and misconduct	Unknown or insufficient information	Total
PART OF BODY INVOLVED																								34	
Head		1	1																					2	
Back																								9	
Chest																								0	
Extremities																								1	
Illness																								1	
Drowning		113	2	3	3	1	3	1																112	
Unspecified and miscellaneous		2	2	1	3	1																		47	

**Statistical Summary of Personnel Injuries on Board Commercial Vessels
Not Involving a Vessel Casualty**

1 October 1977 to 30 September 1978 Fiscal Year 1978		Natural cause	Homicide	Suicide	Disappearance	Skip and falls—sledges	Skip and falls—groggery	Skip and falls—on deck	Skip and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by object(s) falling, dropping, or hitting	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Name and cause (other than electrical)	Electrical shock and burns	Cought in lines, chains or wire	Fishing or crusing	Heavy weather	Confinement, storage and strand	Cards, instruments, inventories and documents	Affections and misconduct	Unknown or insufficient information	Total
Number of injuries		2	0	2	0	128	17	217	107	7	13	313	6	130	36	47	10	91	57	6	173	65	38	29	1460
Number of un-inspected vessels involved		1	0	1	1	119	16	192	92	1	9	246	3	117	27	42	8	22	49	8	0	16	9	2	216
Number of inspected vessels involved		1	0	1	1																137	56	36	24	1226
CAUSE OF INJURY																									
Intoxication						6	2	2	1															16	
Physical deficiency or handicap						6	6	6																33	
Unsafe movement or posture						20	1	17	18	1	3	13	1	18	2	2	6	6	71	2	1	2	1	179	
Psychological—immaturity, insanity						1		1	2	1	3	32	2	8	3	13	5	5	5	1	1	36	1	38	
Unsafe practice						1		9	2	1	3	3												161	
Violation of law or regulation																									
Human errors																									
Deck slippery or cluttered						75	11	117	69	6	37	1	73	22	21	3	30	6	1	57	37	10	1	725	
Weather conditions						8	1	48	5	10	1	13	19	6	6	6	2	2	2	2	2	1	1	72	
Poor maintenance or housekeeping						3	1	10	10	1	1	7											11		
Inadequate lighting						2	1	2	2			2											6		
Inadequate rails or guards						1		6	2		3	2											6		
Failure of equipment												30	2	3	6	2							3		
Inadequate supervision												2											3		
Inadequate life preservers												7	1										2		
Inadequate tools or equipment												2											4		
Inadequate protective equipment												7	1										7		
Improper use of tools or equipment												2											4		
Miscellaneous causes						1		2	1		2	2								1	1	1	1	34	

**Statistical Summary of Personnel Injuries on Board Commercial Vessels
Not Involving a Vessel Casualty - Continued**

1 October 1977 to 30 September 1978 Fiscal Year 1978																						
	Natural cause	Homicide	Suicide	Disengagement	Ship and cable-breakers	Ship and cable-slicers	Ship and cable-cutters	Falls from vessel-to-vessel or deck	Falls into water or tank	Struck by object(s) falling or moving	Struck by object(s) flying or moving	Operating machinery and tools	Bangs and acute noise (e.g., electrical)	Electrical shock, charged bodies (e.g., objects)	Congest in lines, chains or wire (e.g., cables)	Fracturing or cracking	Injury weather	Overexertion, fatigue and strain	Cuts, lacerations, abrasions, and punctures	Affractions and reactions	Unknown or insufficient information	Total
TYPES OF VESSELS INVOLVED																						
Inspected vessels:																						
Passenger and ferry—large																					66	
Passenger and ferry—small																					25	
Freight																					2	
Cargo barge																					2	
Tugboat																					1	
Tow barge																					0	
Public																					7	
Miscellaneous																					27	
Uninspected vessels:																					46	
Fishing																					2	
Tugs																					0	
Freight																					219	
Miscellaneous																					1	
TIME OF DAY																					48	
Daytime	2	2	73	7	139	73	6	10	266	3	95	28	33	8	38	6	180	49	16	12	1013	
Nighttime			45	10	52	42	5	9	52	1	5	6	8	2	7	8	23	13	22	5	328	
Twilight			10	13	27	7	1	17	17	1	1	1	1	1	1	1	10	3	2	12	97	
PARTICULARS OF PERSON INJURED																						
Papers of person injured:																						
Licensed by Coast Guard			19	1	31	20	1	2	42	1	20	6	15	3	6	5	25	8	7	3	213	
Unlicensed by Coast Guard			98	16	29	18	1	2	66	2	12	6	26	2	17	7	120	16	18	1	1004	
No license or document																					213	
Other—unknown—foreign																					5	
Status or capacity on vessel:																						
Passenger																					39	
Longshoreman—harbor worker																					20	
Crew member																					1350	
Other																					31	
Activity engaged in:																						
Off duty																					121	
Deck department duties																					62	
Engine department duties																					327	
Steward department duties																					134	
Handling cargo																					12	
Fishing																					52	
Drills																					16	
Passenger																					32	
Other and unknown																					21	
Location:																						
Great Lakes																					35	
Western Rivers																					35	
Inland																					451	
Ocean																					160	
Foreign and unspecified																					309	
PART OF BODY INVOLVED																						
Head	25	3	38	29	2	3	83		26	1	18	6	2	2	1	9	6	21	4	275		
Back		2	2	10	2	1	7		16	2	10	1	1	2	1	71	1	2	1	190		
Chest		2	2	12	2	2	12		19	2	12	2	2	2	2	35	1	6	1	160		
Extremities		26	10	32	32	2	4		199	2	22	3	37	3	37	36	1	14	14	724		
Limbs																				6		
Drowning																				0		
Unspecified and miscellaneous																				29		

Statistics of Casualties

1977

Annually the U.S. Coast Guard presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry, and the Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Coast Guard Officer in Charge, Marine Inspection. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

- (a) actual physical damage to property in excess of \$1,500;
- (b) material damage affecting the seaworthiness or efficiency of a vessel;
- (c) stranding or grounding (with or without damage);
- (d) loss of life;
- (e) injury causing any person to remain incapacitated for a period in excess of 72 hours, except injury to harbor workers not resulting in death and not resulting from vessel casualty or

vessel equipment casualty.

The statistical summary on the following pages represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1977, which ended September 30, 1977. Statistics concerning noncommercial recreational boating accidents can be found in CG-357, Boating Statistics, published by the Office of Boating Safety.

This summary also includes those casualties serious enough by reason of dollar damage or number of deaths and/or injuries to warrant the convening of a Marine Board of Investigation. Included in this year's statistics are the following Marine Boards of Investigation: the collision of the MV Frosta and the ferry George Prince with the subsequent capsizing of the latter vessel at Mile 126 of the Lower Mississippi River; the explosion and sinking of the tankship Sansinena at Long Beach, California; and the structural failure and swamping of the tankship Chester A. Poling near Gloucester, Massachusetts. These major marine casualties resulted in 87 deaths, 33 injuries, and property damage

amounting to \$2,890,000.

Every event involving a vessel or her personnel which meets any of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of reportable casualties are not investigated by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. Through the cooperation of the masters, owners, and agents of commercial vessels many of the unreported casualties can be investigated.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

The Information and Analysis Staff of the Office of Merchant Marine Safety will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these statistics should be addressed to Commandant (G-MA/83), U.S. Coast Guard, Washington, D.C. 20590.

Statistical Summary of Casualties to Commercial Vessels

1 October 1976 to 30 September 1977

Fiscal Year 1977

	Collisions; crossing, meeting, and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire - cargo	Explosion and/or fire - vessel's fuel	Explosion and/or fire - boilers, pressure vessels	Explosion and/or fire - structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Cargo damage	Material failure - structure and equipment	Material failure - machinery and engineering equipment	Casualty not otherwise classified	Total			
Number of casualties.....	269	218	3	493	280	16	8	9	181	417	650	414	23	24	70	3574			
Number of vessels involved.....	830	568	9	958	485	20	10	9	193	766	1077	498	34	26	243	6140			
Number of inspected vessels involved.....	213	159	1	295	161	7	1	6	55	210	324	45	13	21	135	152			
Number of uninspected vessels involved.....	617	409	8	663	324	13	9	3	178	556	753	453	21	5	108	4288			
PRIMARY CAUSE																			
Personnel fault:																			
Pilots-State.....	15	7		22	2					8	34	2				3	93		
Pilots-Federal.....	2	4		15						2	14					17			
Licensed officer-documentated seaman.....	144	107	1	274	89	2				117	207	30	2	1	10	1019			
Unlicensed-undocumented persons.....	71	29	1	20	17		1	1	8	20	84	37	3		6	359			
All others.....	12	20		33	8	8		1	9	9	37	8		5	6	164			
Calculated risk.....					2					2	3	1				8			
Restricted maneuvering room.....	2	3		9	1					3	3					25			
Storms-adverse weather.....	8	10		14	10					31	38	64	18	17	53	410			
Unusual currents.....	1			9	2					7	3	3				30			
Sheer, suction, bank cushion.....	11	1		4	1					6	6					31			
Depth of water less than expected.....	1	2		1	6					64	155	3				12			
Failure of equipment.....	14	21		52	14	5	1	4	67	35	46	63	1	1	70	256			
Unseaworthy-lack of maintenance.....				2	1					1	1	2	63		14	5	89		
Floating debris-submerged object.....				13	90					11	1	20			6		141		
Inadequate tug assistance.....	1	1		6	1					4						13			
Fault on part of other vessel or person.....	542	351	7	475	208	4	3		13	355	429	141	10	2	65	23	2664		
Unknown-insufficient information.....	4	10		8	13	1	5	3	91	25	11	63		13	13	19	279		
TYPE OF VESSEL																			
Inspected vessels:																			
Passenger and ferry-large.....	3	1		12	2					1	4		2	50	8		39		
Passenger and ferry-small.....	10	7		6	8					14	20	14	21	1	6	20	110		
Freight.....	26	47		79	34					4	26	21	68	6	19	66	467		
Cargo barge.....	2			4	5					1	1				2		16		
Tankships.....	9	15		25	19	1				2	4	16	42	6	4	31	214		
Tank barge.....	154	70	1	167	87	5				8	147	191	7	3	20	14	889		
Public.....	6	11		1	2					2	3	4	5		3	6	45		
Miscellaneous.....	3	8		1	+	1	1			2					8		32		
Uninspected vessels:																			
Fishing.....	98	60	2	22	34	1	4	1	61	93	125	203	4		33	85	17	441	
Tugs.....	255	119	3	355	174	3	2		37	235	310	98	10	3	31	28	176		
Foreign.....	53	79	1	54	19	6			1	13	27	101	4	1	6	11	19		
Miscellaneous.....	211	131	2	232	97	3	3		1	27	201	217	146	6	2	39	13	148	
GROSS TONNAGE																			
300 tons or less.....	437	287	4	374	232	6	9	2	132	326	402	405	16	6	91	141	56	1925	
Over 300 to 1,000 tons.....	167	103	2	248	87	4	1		15	240	280	66	4		24	9	80	1270	
Over 1,000 to 10,000 tons.....	174	102	3	234	121	7			3	22	159	222	15	8	6	61	52	1212	
Over 10,000 tons.....	52	76		102	45	3			4	24	41	163	12	6	12	68	106	73	
LENGTH																			
Less than 100 feet.....	374	235	4	305	178	3	9	1	118	274	323	356	10	3	69	14	47	2433	
100 to less than 300 feet.....	380	221	3	503	221	11	1	1	36	423	535	128	13	3	78	47	2628		
300 to less than 1000 feet.....	26	21	2	26	38	2			2	13	20	45	3	4	6	17	10	252	
500 feet and over.....	50	91		124	46	4			5	26	49	174	11	7	14	79	120	827	
AGE																			
Less than 10 years.....	395	241	5	434	194	10	5	2	72	326	481	119	12	9	72	118	47	2547	
10 to less than 20 years.....	194	130	2	233	123	5	1	3	49	210	278	111	11	6	57	62	24	1500	
20 to less than 30 years.....	77	67	1	132	68	1	1	1	23	106	138	88	5	2	47	51	10	818	
30 years and over.....	164	130		159	100	4	3	3	49	124	180	180	6	9	62	77	25	1275	
LOCATION OF CASUALTY																			
Inland-Atlantic.....	36	39		90	65	4			2	34	84	210	85	2	1	40	74	18	726
Inland-Gulf.....	108	55	1	137	63	5	3	2	45	80	112	74	4	1	18	15	11	712	
Inland-Pacific.....	22	28		46	33	2	1		29	64	79	67	2	2	23	16	5	433	
Ocean-Atlantic.....	9	4		5	13	1			1	11	14	6	47	4	8	39	55	11	239
Ocean-Gulf.....	12	13		15	16	1			14	11	6	25	2	1	10	21	2	149	
Ocean-Pacific.....	15	7		3	8	2			2	19	21	10	38	5	6	24	40	4	204

Statistical Summary of Casualties to Commercial Vessels - Con.

		Collisions; crossing, meeting, and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire - cargo	Explosion and/or fire - vessel's fuel	Explosion and/or fire - boilers, pressure vessels	Explosion and/or fire - structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure - structure and equipment	Material failure - machinery and engineering equipment	Casualty not otherwise classified	Total
LOCATION OF CASUALTY - Continued																			
Great Lakes.....	6	9	.....	50	26	.....	1	7	1	22	42	9	1	1	19	35	5	232
Western rivers.....	53	36	2	116	47	3	2	.....	15	109	154	66	2	3	17	7	7	635
Ocean-other.....	3	12	.....	13	5	.....	1	5	5	14	2	1	1	3	10	2	2	92
Foreign waters.....	5	15	.....	18	4	.....	2	2	7	17	44	4	4	8	9	3	3	91
TIME OF DAY																			
Daylight.....	126	126	1	254	141	12	6	4	105	175	311	210	10	16	94	38	1805		
Nighttime.....	126	84	2	189	99	4	2	3	65	186	297	160	9	6	63	22	1399		
Twilight.....	17	8	.....	50	40	.....	2	2	11	56	42	44	4	2	56	26	10	370
ESTIMATED LOSSES (\$1000's)																			
Vessel.....	10459	5774	35	6804	10945	3842	677	492	26762	36335	0	21119	993	189	5440	7348	1927	139141	
Cargo.....	678	19	0	610	1211	18	2	1	1237	2552	0	3957	91	4612	475	1007	719	17189	
Property.....	2137	417	53	16577	640	3	5	0	6486	6754	737	683	0	26	58	84	227	34887	
VESSELS TOTALLY LOST																			
Inspected.....	20	3	.....	8	18	3	3	2	39	35	2	9	1	1	2	1	2	24
Uninspected.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	123	1	1	14	1	2	272

Statistical Summary of Deaths/Injuries Due to a Vessel Casualty

		Collisions; crossing, meeting, and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire - cargo	Explosion and/or fire - vessel's fuel	Explosion and/or fire - boilers, pressure vessels	Explosion and/or fire - structure, equipment, all others	Grounding with damage to vessel	Grounding without damage to vessel	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure - structure and equipment	Material failure - machinery and engineering equipment	Casualty not otherwise classified	Total
1 October 1976 to 30 September 1977																			
Fiscal Year 1977																			
Number of casualties.....	21	8	1	5	2	9	4	0	19	4	1	1	0	0	0	6	5	133	
Number of inspected vessels involved....	1	2	0	1	0	4	4	0	1	7	1	5	0	0	0	3	2	0	
Number of uninspected vessels involved..	20	6	1	4	2	5	4	4	1	12	3	1	36	0	0	3	3	105	
Number of persons deceased/injured.....	88/34	1/17	0/1	1/9	3/1	19/16	0/5	0/5	14/19	1/3	0/1	74/15	0/0	0/0	8/3	3/4	4/3	216/136	
PRIMARY CAUSE																			
Personnel fault:																			
Pilots-State.....																		0	
Pilots-Federal.....																		0	
Licensed officer-document seaman....	3	1	.....	3	1	.....	.....	.....	1	1	4	4	4	4	4	4	4	16
Unlicensed-undocumented persons.....	8	1	.....	1	.....	3	1	1	5	2	4	4	4	4	4	4	4	21
All others.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1	1	1	1	6
Error in judgement-calculated risk.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0

Statistical Summary of Deaths / Injuries Due to a Vessel Casualty - Continued

												Total
1 October 1976 to 30 September 1977												
Fiscal Year 1977												
Collisions; crossing, meeting, and overtaking		Collisions while anchored, docking, or undocking		Collision, fog		Collisions with piers and bridges		Collisions, all others		Explosion and/or fire - cargo		
Restricted maneuvering room.....										Explosion and/or fire - vessel's fuel		
Storms-adverse weather.....										Explosion and/or fire - boilers, pressure vessels		
Unusual currents.....										Explosion and/or fire - structure, equipment, all others		
Sheer, suction, bank cushion.....										Grounding with damage to vessel		
Depth of water less than expected.....										Foundering, capsizing, and flooding		
Failure of equipment.....										Heavy weather damage		
Unseaworthy-lack of maintenance.....										Cargo damage		
Floating debris-submerged object.....										Material failure - structure and equipment		
Inadequate tug assistance.....										Material failure - machinery and engineering equipment		
Fault of other vessel or person.....	10	6	1	1	2	4	1	8	15	1	1	1
Unknown-Insufficient information.....										Casualty not otherwise classified		
PRIMARY CAUSE - Continued												
Inspected vessels:												
Passenger and ferry-large.....												0/3
Passenger and ferry-small.....		/1										15/2
Freight.....	/1											4/9
Cargo barge.....												0/0
Tankships.....												4/8
Tank barges.....		/1			4/5		/1	1/1				5/8
Public												0/0
Miscellaneous.....					2/2							2/3
Uninspected vessels:												
Fishing.....	3/11	/2			3/1	1/1	1/1	3/2	1/1	37/5	3/1	53/23
Tugs.....	/1	3/			1/6	7/1	3/	2/1	1/1	7/2	7/3	10/22
Foreign.....					9/9							10/11
Miscellaneous.....	85/21	1/10	/1	/2	3/	1/1	1/2	6/5		13/2	1/	113/47
PARTICULARS OF PERSON DECEASED/INJURED												
Papers of deceased/injured:												
Licensed by Coast Guard.....												1/2
Documented by Coast Guard.....	/1	/1			/1							7/20
No license or document.....	88/33	1/15	/1	1/8	3/1	10/7	7/5	7/3	11/9	1/2	72/8	197/101
Other-unknown-foreign.....					9/9				7/3			11/13
Status or capacity on vessel:												
Passenger.....	76/18	1/9	/1	1/1				2/2	1/1	18/1		97/35
Longshoreman-harbor worker.....												1/1
Crewmember.....	12/16	/8			6/	3/1	16/13	7/5	7/3	10/10	1/2	56/14
Other.....					1/2	3/3		2/2	2/7			7/3
Activity engaged in:												7/1
Off duty.....		/3	/1		/2			3/1		1/1		4/8
Deck department duties.....	11/9	/5			2/	12/7	2/2	1/2	1/5	1/1	16/3	48/42
Engine department duties.....	/1	/1			1/	4/3	2/2		1/1			5/9
Stewards department duties.....	/1					3/						2/4
Handling cargo.....												2/3
Fishing.....	1/2	/2			3/			2/	1/1	36/4	3/1	46/10
Drills.....												0/0
Passenger.....	76/18	1/8	/1	1/1				2/2	1/1	4/1		83/34
Other and unknown.....					1/3	1/1	3/3		5/9			26/26
Location of vessel:												
At dock.....						1/2	1/1		1/1			3/8
At anchor.....	10/18	/2			1/2				1/1			14/26
Underway.....	78/16	1/11	/1	1/7	3/1	18/14	7/4	7/4	13/18	1/1	71/15	199/102
Unknown.....												0/0
PART OF BODY INVOLVED												
Head and upper limbs.....	/1	/6			/3	/1	/5	/2		/1		3/22
Back and lower limbs.....	/1	/7	/1	/3		/1	/1			/1		0/19
Chest.....	/1	/1			/1					/1		0/6
Extremities.....	/4	/2				15	/1	1/5	1/4	1/1		1/32
Illness.....						1/1						1/2
Drowning.....	85/	1/			1/	2/	1/		2/		53/	150/0
Miscellaneous and unspecified.....	3/27	/1			/1	1/	1/	1/5	/1		4/	60/55

Statistical Summary of Deaths on Board Commercial Vessels Not Involving a Vessel Casualty

	Natural cause	Homicide	Suicide	Disappearance	Slips and falls - ladders	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel - into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains, and strains	Guts, lacerations, bruises, and punctures	Altercations and misconduct	Unknown or insufficient information	Total	
Number of deaths.....	114	0	10	13	2	1	1	8	27	5	14	11	0	0	2	4	0	0	0	0	1	272			
Number of uninspected vessels involved.....	38	0	4	7	1	1	0	0	64	2	9	4	3	0	1	2	0	0	0	0	0	144			
Number of inspected vessels involved.....	76	0	4	6	1	0	0	4	13	3	5	7	-1	0	0	1	3	0	0	0	0	1	128		
CAUSE OF DEATH																									
Intoxication.....									6																7
Physical deficiency or handicap.....	114								1	12	3													115	
Unsafe movement or posture.....									1	2	13													10	
Psychological-immaturity, insanity.....			10																						16
Unsafe practice.....																									2
Violation of law or regulation.....																									20
Human errors.....																									2
Decks-slippery or cluttered.....																									3
Weather conditions.....																									0
Poor maintenance or housekeeping.....																									23
Inadequate lighting.....																									4
Inadequate rails or guards.....																									0
Failure of equipment.....																									2
Inadequate supervision.....																									4
Inadequate life preservers.....																									3
Inadequate tools or equipment.....																									0
Inadequate protective equipment.....																									3
Improper use of tools or equipment.....																									1
Miscellaneous causes.....									17	2	1		4				2							43	
TYPES OF VESSELS INVOLVED																									
Inspected vessels:																									26
Passenger and ferry-large.....	16		3	1	1				2				2	1										8	
Passenger and ferry-small.....	8									7	3	3												56	
Freight ships and barges.....	39			2					4				5											13	
Tankships and barges.....	13		1	2									1	2	1									0	
Public.....																									4
Miscellaneous.....																									0
Uninspected vessels:																									0
Fishing.....	12		2	4						13			3											36	
Tugs.....	15		2	1					30		3													53	
Foreign.....	4		1	1	1	1			3	2	2	1											16		
Miscellaneous.....	7		1	2					18		4	1	2	1									41		
TIME OF DAY																									
Daytime.....	79		4	3	1	1		1	6	40	1	11	7	3	2	3	1	3						166	
Nighttime.....	28		5	9	1	1		2	33	3	1	1	1	1										85	
Twilight.....	7		1	1					4	1	2	3					1	1						21	
PARTICULARS OF DECEASED																									
Papers of deceased:																									6
Licensed by Coast Guard.....	4									1			1											1	
Documented by Coast Guard.....	54		1	4					4	10	3	3	2										85		
No license or document.....	53		8	9	1	1		4	62	1	11	7	4	1	4	1	2						169		
Other-unknown-foreign.....	3		1		1	1		4	1		1		1										12		
Status or capacity on vessel:																									36
Passenger.....	25		3	1	1					3			2	1										10	
Longshoreman-harbor worker.....	1			1						2	2	1												1	
Crewmember.....	85		7	11	1	1		1	6	70	3	8	6	2	1	3	4						209		
Other.....	3								2	2		3	3	1	1	1	1						17		
Activity engaged in:																									37
Off duty.....	29		1	1						5														92	
Deck department duties.....	22		2	1				1	4	45	2	7	2	1		1	1	4						14	
Engine department duties.....	9		1	1					2	1	1	2	1										10		
Steward's department duties.....	8		1							1														9	
Handling cargo.....	1												1	4		1								30	
Fishing.....	19		1	3						5			2											1	
Urildic.....													1											24	
Passenger.....	15		3	1					2			1	1				2	1						50	
Other and unknown.....	11		31	4	11	2	17	1	2	41	11	11	2	1	2	1	2	1							

Statistical Summary of Deaths on Board Commercial Vessels Not Involving a Vessel Casualty - Continued

1 October 1976 to 30 September 1977

Fiscal Year 1977

	Natural cause	Homicide	Suicide	Disappearance	Slips and falls - ladders	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel - into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oversaturation, sprains, and strains	Cuts, lacerations, bruises, and punctures	Altercations, brawls, and misconduct	Unknown or insufficient information	Total
Location of vessel:																								
At dock.....	5	.....	1	.....	.....	.....	.....	.....	16	1	2	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	27	
At anchor.....	8	.....	1	.....	1	1	1	1	6	1	2	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	22	
Underway.....	101	.....	9	11	1	1	1	1	7	55	3	10	10	3	.....	.....	.....	2	.....	.....	.....	.....	1 223	
PART OF BODY INVOLVED																								
Head.....	.....	.....	.....	.....	1	1	1	1	4	1	3	8	.....	4	1	1	1	1	1	1	1	1	1	26
Back.....	.....	.....	1	.....	1	1	1	1	1	2	4	1	1	1	1	1	1	1	1	1	1	1	1	10
Chest.....	113	.....	6	.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Extremities.....	.....	.....	3	13	1	1	1	1	60	2	1	4	7	1	1	1	1	1	1	1	1	1	1	71
Illness.....	.....	.....	.....	.....	2	14	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Drowning.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	51
Unspecified and miscellaneous.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1

Statistical Summary of Personnel Injuries on Board All Commercial Vessels Not Involving a Vessel Casualty

1 October 1976 to 30 September 1977

Fiscal Year 1977

	Slips and falls - ladders	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel - into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oversaturation, sprains and strains	Cuts, lacerations, bruises, and punctures	Altercations and misconduct	Unknown or insufficient information	Total
Number of injuries.....	165	21	249	69	9	15	216	4	167	14	12	79	88	1	172	65	38	10	1419
Number of uninspected vessels involved.....	8	0	22	11	2	4	50	0	16	2	8	37	13	0	10	12	3	3	201
Number of inspected vessels involved.....	157	21	227	58	7	11	166	4	131	45	4	42	75	1	162	53	35	7	1218
CAUSE OF INJURY																			
Intoxication.....	7	1	5	2	.....	1	4	6	.....	.....	1	1	1	1	1	1	4	1	27
Physical deficiency or handicap.....	5	.....	6	4	.....	4	11	2	12	.....	9	6	55	3	1	3	1	3	39
Unsafe movement or posture.....	12	2	20	8	.....	4	11	12	.....	1	1	1	1	1	4	29	1	140	
Psychological-immaturity, insanity.....	.....	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	39
Unsafe practice.....	21	19	5	1	2	40	12	2	11	17	11	1	16	7	1	1	1	1	165
Violation of law or regulation.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1	1	3	1	3	1	3
Human errors.....	95	17	119	41	6	5	107	1	70	10	30	3	46	62	1	69	44	1	730
Decks-slippery or cluttered.....	9	1	59	.....	2	1	3	3	31	1	1	2	1	1	5	1	2	1	85
Weather conditions.....	3	11	5	1	1	1	1	9	31	1	1	1	4	1	2	1	1	1	65
Poor maintenance or housekeeping.....	1	5	1	1	1	1	1	3	2	1	2	1	1	1	1	1	1	1	15
Inadequate lighting.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inadequate rails or guards.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Failure of equipment.....	9	1	1	4	1	1	1	36	31	2	7	1	3	2	1	1	1	1	69
Inadequate supervision.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inadequate life preservers.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

March 1978

THIS PAGE IS NOT QUALITY PRIMED
DO NOT SUBMIT UNLESS REQUESTED TO EDC

Statistical Summary of Personnel Injuries on Board All
Commercial Vessels Not Involving a Vessel Casualty - Continued

	Slips and falls - ladders	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel - into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and aspiration	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinchching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises, and punctures	Altercations and assault	Unknown or insufficient information	Total
CAUSE OF INJURY - Continued																				
Inadequate tools or equipment.....																				2
Inadequate protective equipment.....																				9
Improper use of tools or equipment.....	1																			6
Miscellaneous causes.....	2		1			1													2	14
TYPES OF VESSELS INVOLVED																				
Inspected vessels:																				
Passenger and ferry-large.....	13		13	8		2		7	1	21	3	1		5		7	2	3		86
Passenger and ferry-small.....										2										11
Freight ships and tankers.....	116	18	165	39	+	8	117	1	65	6	33		25	49		11	32	22	61	652
Tankships and barges.....	25	3	40	1	2	1	27	2	19	2	19		9	15	1	35	13	9	1	224
Public.....	1																			1
Miscellaneous.....	2		8	1	1		13		4	1	1		2	5		3	1			42
Uninspected vessels:																				
Fishing.....			7	1	1	1	18		4	1			15	7		3	1	3		89
Tugs.....			11	2	1	2	29		10	1	7		18	5		5	3			102
Foreign.....			1				2						1	1						7
Miscellaneous.....	2		3	1			1		2		1		3			2	2	2		21
TIME OF DAY																				
Daytime.....	1-5	-	160	4	3	1	160	-	109	9	42		60	AP		121	53	15	4	675
Nighttime.....	6-11	-	26	5	4	46		31	3	6		18	15	1	36	6	15		36	
Twilight.....	9	3	1	1	1	1	11		7	2	2		1	5		15	6	8	2	83
PARTICULARS OF PERSON INJURED																				
Papers of person injured:																				
Licensed by Coast Guard.....	3	1	4	3		5	1	1	2	1		2		5		1	1			9
Documented by Coast Guard.....	1-6	27	24	2	6	8	1-8	3	1-9	10	46		34	65	1	152	52	34	2	493
No license or document.....	16		42	19	3	5	61		37	2	6		42	22		15	13	3		259
Other unknown-nationality.....						2	2						1	1						6
Status or capacity on vessel:																				
Passenger.....	4		11	n	1	2	1	1	17					3						41
Longshoreman-harbor worker.....			1		1	1														1
Crew-member.....	157	21	230	62	7	19	198	3	126	13	52		75	77	1	170	64	36	10	315
Other.....	1		7	1		3	14		4	1	1		5	6			1	2		48
Activity engaged in:																				
Off duty.....	28	8	17	9	1	7		8		2			31		1	5	9	21		49
Deck department duties.....		7	17	32	5	8	132		66	3	8		52	38	1	82	24	12	2	651
Engine department duties.....	5	3	93	13		1	42	2	35	8	29	4	9	15		49	12	3	2	341
Stewards department duties.....	11	1	32	5		8	1	15	1	11		1	12	21		26	18	4		148
Hauling cargo.....	1					3							3							9
Fishing.....			5	2	1	1	7		11				12	4		3	1		3	52
Drills.....			1	1					2				3			1				2
Passenger.....	4		8	4		2	1		7				3			1				30
Other and unknown.....	7	2	17	3	2	3	16	1	5	2	3		5	10		8	3	1		97
Location of vessel:																				
At dock.....	5		4	2	1	1		5		3		1	1	2		5				1
At anchor.....			12	1		2		2		4		10	2	7		7	2	1		53
A underway.....	15	21	232	66	8	13	24	4	12	14	46	4	69	8	1	160	61	37	8	332
PARTS OF BODY INVOLVED																				
Head.....	27	1	3	4	1	2	67		18	3	9	1	3	3		12		22	1	235
Back.....	4	4	62	28	1	8			16	1	1	2	2	2		3	1	5		254
Chest.....	13		29	1	2	2	11		16	1	1	3	2	2		20	2	1		112
Extremities.....	82	1	29	33	3	9	126		70	9	35	1	71	79		45	59	9	1	274
Knees.....			1						1										3	
Drowning.....			1						6		8					1	2	2		9
Unspecified and miscellaneous.....	3	1	6		2	2													4	41

Statistics of Casualties

1976

Annually the U.S. Coast Guard presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry, and the Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Officer in Charge, Marine Inspection, U.S. Coast Guard. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

- (a) Actual physical damage to property in excess of \$1,500;
- (b) Material damage affecting the seaworthiness or efficiency of a vessel;
- (c) Stranding or grounding (with or without damage);
- (d) Loss of life;
- (e) Injury causing any person to remain incapacitated for a period in excess of 72 hours, except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

Every event involving a vessel or

her personnel which meets any of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of reportable casualties are not investigated by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. Through the cooperation of the masters, owners, and agents of commercial vessels many of the unreported casualties can be investigated.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is important to note that in contrast to previous years this summary represent casualties reported to Coast Guard Headquarters during an extended fiscal year of 15 months, which ended September 30, 1976. This factor should be taken into consideration in any comparison with statistics of previous fiscal years.

Statistics concerning noncommercial recreational boating accidents can be found in CG-357, Boating Statistics, published by the Office of Boating Safety.

This summary also includes those casualties serious enough by reason

of dollar damage or number of deaths and/or injuries to warrant the convening of a Marine Board of Investigation. Included in this year's statistics are the following Marine Boards of Investigation: the explosion of tank barge B924 at Greenville, Mississippi; the capsizing and sinking of the drilling rig *Ocean Express* in the Gulf of Mexico; and the sinking of the SS *Edmund Fitzgerald* in Lake Superior. These major marine casualties resulted in 46 deaths, 7 injuries, and property damage amounting to \$25,790,000.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

The Information and Analysis Staff of the Office of Merchant Marine Safety will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these statistics should be addressed to Commandant (G-MIS/83), U.S. Coast Guard, Washington, D.C. 20590.

Statistical Summary of Casualties to Commercial Vessels¹

	Nature of casualty															Total		
	Couisons, crossing, meeting and over-taking	Couisons, while anchored, docked or moored	Collision, fog	Collision, fog	Collision, with piers and bridges	Collision, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel boilers, treasure vessel	Explosion and/or fire structure, equipment, all others	Grounding with damage	Grounded or stranded	Foundering, sunken and drowning	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engi- neering equipment	Casually not otherwise classified		
Number of casualties.....	228	106	22	610	474	53	5	215	481	1016	561	78	17	100	268	4211		
Number of vessels involved.....	720	803	64	1204	814	57	10	219	828	1016	555	104	21	171	272	7180		
Number of inspected vessels involved.....	177	136	15	386	357	5	47	61	202	610	596	63	12	125	165	2182		
Number of uninspected vessels involved.....	543	430	22	310	507	5	47	158	621	726	619	41	9	107	107	8018		
PRIMARY CAUSE																		
Personnel fault:																		
Pilots—State.....	8	8	0	43	6	0	0	0	0	7	31	0	0	0	2	5	113	
Pilots—Federal.....	0	7	0	15	0	0	0	0	0	3	0	0	0	0	0	32		
Licensed officer—documented seaman.....	131	75	14	353	170	1	1	0	5	174	163	31	0	1	4	15	1170	
Unlicensed—undocumented persons.....	59	25	5	13	61	0	0	0	95	95	43	0	0	0	1	11	428	
All others.....	16	13	1	46	21	1	1	0	13	16	12	0	0	0	0	22	218	
Calculated risk.....	0	0	0	3	10	0	0	0	1	4	5	0	0	0	0	0	37	
Restricted maneuvering room.....	12	21	4	44	27	0	0	0	6	25	19	0	0	1	3	10	210	
Storms—adverse weather.....	22	23	3	31	49	0	0	0	0	52	36	13	2	1	0	0	405	
Unusual currents.....	0	1	0	12	4	0	0	0	0	0	1	1	0	0	0	1	41	
Sheer, suction, bank cushion.....	16	2	0	8	3	0	0	0	0	3	0	0	0	0	0	0	373	
Depth of water less than expected.....	0	2	0	4	10	0	0	0	0	88	12	1	0	0	0	0	879	
Failure of equipment.....	24	43	1	65	54	0	36	5	67	61	70	6	1	1	1	34		
Unseaworthy—lack of maintenance.....	0	0	0	0	1	0	0	0	0	0	30	0	0	0	0	0	168	
Floating debris—submerged object.....	0	0	0	2	10	0	0	0	1	11	41	0	0	0	1	0		
Inadequate tug assistance.....	1	1	0	16	4	0	0	0	3	3	0	0	0	0	0	0	28	
Fault on part of other vessel or person.....	489	332	21	510	329	12	1	8	264	215	173	5	1	42	7	51	2483	
Unknown—insufficient information.....	12	14	2	14	37	5	0	0	112	16	14	190	4	1	24	32	531	
TYPE OF VESSEL																		
Inspected vessels:																		
Passenger and ferry—large.....	4	3	0	14	7	0	0	0	1	5	3	0	0	4	7	52		
Passenger and ferry—small.....	17	34	3	8	32	0	1	15	22	31	28	0	0	17	35	223		
Freight.....	17	34	3	95	60	0	5	1	21	31	4	32	1	59	65	37	552	
Cargo barge.....	13	0	0	16	22	1	0	0	2	21	11	10	0	6	0	7	136	
Tankships.....	12	21	2	27	32	0	1	0	9	13	37	5	9	0	22	52	257	
Tank barge.....	107	51	5	214	116	5	2	0	6	99	134	12	4	0	6	2	706	
Public.....	1	3	0	0	0	0	0	0	1	2	2	1	1	1	4	1	19	
Miscellaneous.....	6	8	1	12	28	1	1	0	3	9	4	6	0	10	2	6	97	
Uninspected vessels:																		
Fishing.....	68	53	13	24	104	0	21	0	91	113	128	259	7	20	76	17	1012	
Tugs.....	236	146	11	476	265	3	12	37	224	233	157	18	1	29	20	41	1895	
Foreign.....	41	56	7	81	51	1	6	3	18	32	107	9	1	4	2	2	443	
Miscellaneous.....	198	175	8	241	177	1	8	0	31	212	258	194	15	3	15	9	110	1668
GROSS TONNAGE																		
300 tons or less.....	376	318	34	478	504	4	41	2	112	394	423	562	37	5	65	134	125	3647
Over 300 to 1,000 tons.....	177	102	9	303	130	0	12	0	14	245	211	85	10	3	12	14	89	1410
Over 1,000 to 10,000 tons.....	127	80	7	272	177	0	4	0	31	132	197	24	23	40	34	59	1215	
Over 10,000 tons.....	40	66	4	110	83	0	1	3	32	52	185	11	34	54	90	54	878	
LENGTH																		
Less than 100 feet.....	316	258	32	373	415	4	35	1	124	334	348	501	26	3	55	123	31	3044
100 to less than 300 feet.....	338	260	13	616	338	1	12	0	43	405	446	166	30	6	33	15	154	2844
300 to less than 500 feet.....	19	28	4	42	51	1	0	0	10	36	40	5	4	1	10	15	20	286
500 feet and over.....	47	71	6	173	50	0	2	2	38	56	162	10	42	11	73	109	62	976
AGE																		
Less than 10 years.....	381	220	27	577	303	9	27	3	83	261	480	182	61	10	82	116	149	3203
10 to less than 20 years.....	158	138	8	303	101	1	13	0	39	201	265	152	19	1	85	44	92	1674
20 to less than 30 years.....	70	59	5	189	101	1	6	1	31	95	103	123	11	1	44	27	89	823
30 years and over.....	111	149	14	182	206	0	11	1	63	133	150	221	13	9	46	83	56	1480

See footnotes at end of table.

Statistical Summary of Casualties to Commercial Vessels¹—Continued

		Nature of casualty																	
		Collisions, crossing, meeting, and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel	Explosion and/or fires—vessel, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total
LOCATION OF CASUALTY																			
Inland—Atlantic	28	37	6	124	97	2	11	2	46	100	164	109	5	0	3	22	33	836	
Inland—Gulf	100	66	7	180	102	3	16	16	48	72	176	92	4	3	2	13	44	636	
Inland—Pacific	12	21	0	55	63	0	0	0	26	108	110	63	16	2	2	26	16	568	
Ocean—Atlantic	6	6	1	23	23	0	4	4	17	13	16	54	9	2	2	20	45	261	
Ocean—Gulf	15	9	0	41	51	0	8	8	12	23	23	54	13	1	1	13	7	242	
Ocean—Pacific	12	2	0	40	40	0	5	5	23	28	11	80	5	8	8	30	52	327	
Great Lakes	4	3	0	67	26	1	0	0	2	22	27	7	2	0	0	12	6	206	
Western rivers	41	36	3	148	43	3	3	4	0	19	91	93	86	0	0	4	22	595	
Ocean—other	0	2	0	38	3	0	0	0	6	6	5	3	3	0	0	4	4	41	
Foreign waters	7	14	0	38	26	0	0	1	6	13	37	5	5	1	1	15	15	195	
TIME OF DAY																			
Daylight	111	113	15	230	251	5	32	3	124	213	308	267	5	7	96	170	86	2168	
Nighttime	103	64	7	258	176	3	17	0	81	235	287	225	2	9	39	78	56	1861	
Twilight	14	19	0	31	47	1	7	2	10	36	51	72	18	1	24	20	28	382	
ESTIMATED LOSSES (in thousands)																			
Vessel	9876	5002	582	8506	19002	1135	6129	300	22161	25660	557	34015	10793	78	11012	7410	7425	169812	
Cargo	1214	116	10	6274	9160	212	33	0	2081	7027	5	3743	1956	379	680	7	233	33136	
Property	68	1269	0	17058	6009	717	30	0	4491	1381	131	1686	749	23	1136	4	1202	37741	
VESSELS TOTALLY LOST																			
Inspected	3	0	0	4	2	2	0	1	0	7	2	0	11	1	0	3	1	38	
Uninspected	18	3	4	8	20	2	0	18	0	52	42	0	0	226	0	1	11	408	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

² Includes FY 76 Transition Quarter.

Statistical Summary of Deaths/Injuries Due to a Vessel Casualty¹

		Nature of casualty																	
		Collisions, crossing, meeting, and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fires—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	Total
1 July 1976 to 30 Sept. 1976																			
Fiscal year 1976²																			
Number of casualties	15	6	3	6	11	13/5	7/8	2/8	5/2	21	2	72	1	0	9	4	13	186	
Number of inspected vessels involved	1	1	3	4	11	12	12	12	12	1	1	72	1	0	4	2	32	32	
Number of uninspected vessels involved	15	6/13	2/3	1/11	13/5	7/8	2/8	5/2	5/2	20	1	72	1	1	2	3	160	160	
Number of persons deceased/injured	13/13	6/13	2/3	1/11	13/5	7/8	2/8	5/2	5/2	1/8	3/5	137/26	1/1	1/1	34/8	5/3	27/15	280/163	
PRIMARY CAUSE																			
Personnel fault:																			
Pilot—State	1																	0	
Pilot—Federal																		12	
Licensed officer—documented seaman	1			2		1		2		1		1		1				27	
Unlicensed—undocumented persons	4		3	2		1		1		3		12						7	
All others				1		1		1		3									

See footnotes at end of table.

Statistical Summary of Deaths/Injuries Due to a Vessel Casualty¹—Continued

		Nature of casualty																
		Collision, crossing, meeting, and overtaking	Collision; while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Fouling, capsizing and flooding	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	Total
1 July 1975 to 30 Sept. 1976 Fiscal year 1976 ²																		
PRIMARY CAUSE—Continued																		
Error in judgement—calculated risk																	0	
Restricted maneuvering room	2				2	1		1			1	3			1	1	7	
Storms—adverse weather											12	1			1	1	1	
Unusual currents											1						0	
Sheer, suction, bank cushion																	2	
Depth of water less than expected												2					2	
Failure of equipment	2						3	4	6	1	5			8	4	2	32	
Unseaworthy—lack of maintenance										1	1						1	
Floating debris—submerged object											1						1	
Inadequate tug assistance																	0	
Fault on part of other vessel or person	7	8		1	3	1	2	1		10	2	2	33	1	2	4	24	
Unknown—insufficient information														6		6	59	
TYPE OF VESSEL INVOLVED																		
Inspected vessels:																		
Passenger and ferry—large																		
Passenger and ferry—small	/1	/0															0/10	
Freight																	0/17	
Cargo barge																	0/0	
Tankships																	0/1	
Tank barges																	5/12	
Public																	0/0	
Miscellaneous																	10/7	
Uninspected vessels:																		
Fishing	1/4																86/31	
Tugs	1/3																20/24	
Foreign																	34/6	
Miscellaneous	11/3	6/3															76/35	
PARTICULARS OF PERSON DECEASED/INJURED																		
Papers of deceased/injured:																		
Licensed by Coast Guard	1/1																15/15	
Documented by Coast Guard																	25/2	
No license or document	12/10	6/18															201/125	
Other—unknown—foreign	/1																28/4	
Status or capacity on vessel:																		
Passenger	3/1	/9															40/28	
Longshoreman—harbor worker																	4/6	
Crewmember	8/9	6/4	2/2	1/11	11/6	1/8	/8	6/2	10/18	1/4	2/2	84/19	/1	32/3	2/3	25/6	190/103	
Other	2/3							6/2	2/	1/4		22/5		2/1		/1	35/16	
Activity engaged in:																		
Off duty	8/4																39/17	
Deck department duties	2/3	1/4															38/46	
Engine department duties	/1																12/24	
Stewards department duties																	3/4	
Handling cargo																	2/7	
Fishing	8/3																66/13	
Drills																	/10	
Passenger	8/																26/16	
Other and unknown	2/2	5/															93/17	
Location of vessel:																		
At dock																	7/6	
At anchor	6/3	1/9															45/24	
Underway	7/10	5/4	2/2	1/10	13/2	2/5	/7	5/2	16/23	1/8	8/5	126/21	/1	29/8	2/3	26/15	214/123	
Unknown																	0/0	
PART OF BODY INVOLVED																		
Head and upper limbs	/3																6/29	
Back and lower limbs																	1/13	
Chest	/1	/1															1/11	
Extremities	/2	/2															1/45	
Illness																	3/1	
Drowning	11/8	6/															108/1	
Miscellaneous and unspecified	2/7	10/															166/58	

¹Statistics concerning recreation and pleasure boating accidents are published in CG-857.

²Includes FY76 Transition Quarter.

**Statistical Summary of Deaths on Board Commercial Vessels¹
(Not Involving a Vessel Casualty)**

	Nature of death																	Total					
	Natural cause	Homicide	Suicide	Disappearance	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Slips and Falls—Other	Falls from vessel— into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation ¹	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises and punctures	Alterations and misconduct	Unknown or insufficient information	Total
Number of deaths.....	172	7	18	16	10	1	0	13	97	5	25	13	4	0	1	3	0	0	405				
Number of inspected vessel deaths.....	127	1	13	2	8	1	0	8	19	5	9	4	1	0	0	3	7	0	209				
Number of uninspected vessel deaths.....	15	6	5	14	2	0	0	5	78	0	16	0	3	0	0	3	0	1	196				
CAUSE OF DEATH																							
Intoxication.....	0	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	30				
Physical deficiency or handicap.....	72	1	1	0	0	0	0	0	1	13	2	2	2	0	0	0	0	0	160				
Unsafe movement or posture.....	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	25				
Psychological—immaturity, insanity.....	0	5	16	1	0	0	0	0	0	3	1	0	0	0	0	0	0	0	28				
Unsafe practice.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36				
Violation of law or regulation.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Human errors.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Decks—slippery or cluttered.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Weather conditions.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Poor maintenance or housekeeping.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate lighting.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate rails or guards.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Failure of equipment.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate supervision.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate life preservers.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate tools or equipment.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Inadequate protective equipment.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Improper use of tools or equipment.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Miscellaneous causes.....	0	0	0	0	10	1	0	0	0	2	19	0	1	2	0	0	0	0	34				
TYPES OF VESSELS INVOLVED																							
Inspected vessels:																							
Passenger and ferry—large.....	18	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	36				
Passenger and ferry—small.....	33	0	4	2	0	0	0	0	0	4	1	0	0	0	0	0	0	0	42				
Freight ships and barges.....	41	0	5	0	0	0	0	0	3	6	3	2	0	0	0	0	0	0	83				
Tankships and barges.....	22	1	0	0	0	0	0	0	5	5	5	1	1	0	0	0	0	0	40				
Public.....	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2				
Miscellaneous.....	9	0	0	0	0	1	0	0	0	0	3	1	0	0	0	0	0	0	16				
Uninspected vessels:																							
Fishing.....	13	5	1	7	0	0	0	0	2	29	0	4	5	1	0	0	0	0	69				
Tugs.....	15	0	1	3	0	1	0	0	2	21	2	4	4	0	0	0	0	0	51				
Foreign.....	9	1	0	0	4	1	0	0	1	24	0	6	12	0	0	0	0	0	26				
Miscellaneous.....	8	0	0	0	4	1	0	0	2	0	0	0	0	0	0	0	0	0	51				
TIME OF DAY																							
Daytime.....	119	2	9	8	7	4	1	0	7	49	3	19	6	4	0	3	0	0	249				
Nighttime.....	40	5	6	7	6	0	0	0	5	41	6	4	3	0	0	1	0	0	128				
Twilight.....	13	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	38				
PARTICULARS OF DECEASED																							
Papers of deceased:																							
Licensed by Coast Guard.....	19	0	1	1	1	0	0	1	5	0	2	1	0	0	0	0	0	0	31				
Documented by Coast Guard.....	64	1	4	3	6	1	0	0	8	14	5	3	2	0	0	1	0	1	119				
No license or document.....	83	6	9	12	2	0	0	0	3	0	2	10	4	0	0	0	1	1	234				
Other—unknown—foreign.....	6	1	4	0	1	0	0	1	3	0	2	0	0	0	0	1	1	1	21				
Status or capacity on vessel:																							
Passenger.....	55	0	8	2	0	0	0	0	9	0	0	0	0	0	0	0	0	0	75				
Longshoreman—harbor worker.....	2	0	1	0	2	0	0	0	11	78	2	22	11	4	0	0	0	0	0				
Crewmember.....	103	7	8	13	6	1	0	0	0	8	2	1	2	0	0	3	5	2	283				
Other.....	12	0	1	1	2	0	0	0	0	26	0	0	0	0	0	0	0	0	32				
Activity engaged in:																							
Off duty.....	50	4	4	1	2	0	0	0	1	6	1	1	3	0	0	0	0	0	73				
Deck department duties.....	24	1	4	7	3	1	0	0	4	37	2	1	2	1	0	0	0	0	112				
Engine department duties.....	8	0	1	0	1	0	0	0	4	2	0	0	0	0	0	0	0	0	21				
Stewards department duties.....	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9				
Handling cargo.....	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0				
Fishing.....	34	2	1	4	0	0	0	0	0	26	0	0	0	0	0	0	0	0	73				
Drills.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Passenger.....	29	0	1	7	1	0	0	0	5	0	0	0	0	0	0	0	0	0	42				
Other and unknown.....	20	0	1	2	3	0	0	3	20	1	2	8	0	0	0	0	0	0	66				

See footnotes at end of table.

**Statistical Summary of Deaths on Board Commercial Vessels¹
(Not Involving a Vessel Casualty)—Continued**

	Nature of death																						
	Natural cause	Homicide	Suicide	Disappearance	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel— Into water	Falls into holds or tanks	Struck by objects falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises and punctures	Alterations and miskon- duct	Unknown or insufficient information	Total
PARTICULARS OF DECEASED—Continued																							
Location of vessel:																							
At dock.....	8	0	0	1	2	0	0	0	1	16	2	0	0	0	0	0	0	0	0	0			
At anchor.....	8	0	7	16	12	8	0	1	1	18	1	22	13	0	0	0	0	0	0	0			
Underway.....	0	0	0	0	0	0	0	0	0	68	0	0	0	4	0	0	0	0	0	0			
Unknown.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PART OF BODY INVOLVED																							
Head.....	0	1	2	0	6	0	0	0	7	3	2	18	0	0	3	0	0	0	0	47			
Back.....	1	0	0	0	1	2	1	0	0	0	0	1	2	0	0	0	0	0	0	2			
Chest.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Extremities.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Illness.....	138	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	138			
Drowning.....	0	0	11	12	1	0	0	0	6	24	3	5	10	1	0	0	0	0	0	91			
Unspecified and miscellaneous.....	32	6	5	13	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	116			

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-387.

² Includes FY76 Transition Quarter.

Statistical Summary of Personnel Injuries on Board All Commercial Vessels¹ (Not Involving a Vessel Casualty)

	Nature of injury																			
	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Caught in lines, chains or wire ropes	Electrical shock and burns	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises and punctures	Alterations and miskonduct	Unknown or insufficient information	Total
Number of injuries.....	132	29	195	115	8	21	205	10	97	4	54	67	68	3	111	100	53	37	17	1224
Number of inspected vessel injuries.....	123	24	169	95	7	16	50	3	11	3	55	42	42	2	10	1	2	2	1	1018
Number of uninspected vessel injuries.....	9	5	26	20	5	5	50	3	11	1	5	1	1	0	0	0	0	0	0	211
CAUSE OF INJURY																				
Intoxication.....	6	2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Physical deficiency or handicap.....	2	0	3	2	0	0	0	2	3	2	0	0	0	0	0	0	0	0	0	26
Unsafe movement or posture.....	9	2	20	10	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	129
Psychological—immaturity, insanity.....	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Unsafe practice.....	1	4	25	18	3	3	46	0	0	0	0	0	0	0	0	0	0	0	0	164
Violation of law or regulation.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Human errors.....	78	16	110	58	4	14	101	1	58	2	2	2	2	0	0	0	0	0	0	246
Decks—slippery or cluttered.....	6	2	23	3	6	0	0	4	0	0	0	0	0	0	0	0	0	0	0	95
Weather conditions.....	2	0	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Poor maintenance or housekeeping.....	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Inadequate lighting.....	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Inadequate rails or guards.....	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

See footnotes at end of table.

Statistical Summary of Personnel Injuries on Board All Commercial Vessels¹ (Not Involving a Vessel Casualty—Continued)

	Nature of injury																		Total	
	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects, falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oversettation, strains and sprains	Cuts, lacerations, bruises and punctures	Alterations and masonry-duct	Unknown or insufficient information		
CAUSE OF INJURY—Continued																				
Failure of equipment.....	5	3	1	8	0	0	0	0	0	0	0	2	0	1	4	0	0	0	67	
Inadequate supervision.....	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	13	
Inadequate life preservers.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Inadequate tools or equipment.....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Inadequate protective equipment.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Improper use of tools or equipment.....	3	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
Miscellaneous causes.....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
TYPES OF VESSELS INVOLVED																				
Inspected vessels:																				
Passenger and ferry—large.....	2	1	4	5	1	0	0	1	2	0	0	0	0	0	2	0	0	0	19	
Passenger and ferry—small.....	2	0	6	10	0	0	0	2	0	1	2	1	0	0	1	0	0	0	27	
Freight ships and barges.....	90	19	125	49	0	11	116	0	2	73	2	26	6	33	37	0	14	4	734	
Tankships and barges.....	21	4	32	20	0	0	2	21	3	10	1	12	1	5	6	0	1	1	171	
Public.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Miscellaneous.....	7	0	2	11	0	0	1	14	0	1	0	3	0	0	2	5	0	4	57	
Uninspected vessels:																				
Fishing.....	1	0	6	3	4	3	26	0	4	0	6	0	16	4	2	3	7	2	90	
Tugs.....	7	1	13	11	3	2	21	0	4	0	5	0	7	4	1	0	0	0	86	
For hire.....	1	4	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	8	
Miscellaneous.....	0	0	6	5	0	0	3	3	1	0	1	2	1	0	2	0	0	0	27	
TIME OF DAY																				
Daytime.....	101	14	127	76	6	15	153	9	64	2	43	7	56	45	3	85	42	13	0	870
Nighttime.....	24	11	56	30	2	5	45	1	27	1	11	0	5	8	0	19	22	7	1	282
Twilight.....	7	4	12	9	0	1	7	0	6	1	0	1	6	5	0	7	3	2	72	
PARTICULARS OF PERSON INJURED																				
Papers of person injured:																				
Licensed by Coast Guard.....	8	1	4	9	0	2	18	0	5	0	4	1	4	5	0	14	2	1	2	80
Documented by Coast Guard.....	107	23	153	61	1	12	124	6	80	3	37	6	36	36	0	83	38	34	11	851
No license or document.....	16	2	37	44	6	63	4	12	1	12	1	27	17	3	14	13	2	4	285	
Other—unknown—foreign.....	1	3	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	8	
Status or capacity on vessel:																				
Passenger.....	2	2	9	15	1	2	2	0	1	0	2	0	2	2	0	0	1	0	41	
Longshoreman—barbor worker.....	2	0	0	1	0	2	2	3	0	1	1	0	0	0	0	0	0	0	12	
Crewmember.....	121	23	178	87	5	17	196	5	92	2	49	7	65	54	3	107	47	35	16	118
Other.....	7	4	8	12	2	0	5	2	4	1	2	1	1	2	0	4	5	2	63	
Activity engaged in:																				
Off duty.....	10	8	12	10	0	0	1	1	10	0	2	0	0	2	0	6	4	11	1	78
Deck department duties.....	52	4	102	40	3	13	133	1	48	1	21	1	45	28	1	57	14	4	9	575
Engine department duties.....	47	2	31	19	0	2	39	3	27	1	17	6	8	15	0	31	14	4	4	270
Steward department duties.....	6	6	24	8	0	1	5	0	4	1	9	0	0	5	0	10	12	5	1	100
Handling cargo.....	1	0	0	1	0	2	1	0	0	1	0	0	0	0	0	2	0	0	0	3
Fishing.....	1	0	8	6	2	1	14	0	2	0	3	0	0	12	2	1	6	0	1	61
Drills.....	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	12
Passenger.....	1	2	5	12	0	2	2	0	1	0	0	0	0	1	1	0	0	0	0	12
Other and unknown.....	11	7	12	18	3	0	10	5	7	0	2	1	1	4	0	4	3	13	1	102
Location of vessel:																				
At dock.....	5	0	4	11	0	0	9	1	3	0	1	0	5	1	0	4	0	0	0	44
At anchor.....	3	0	7	4	1	2	4	0	1	0	3	1	1	0	3	0	0	0	33	
Underway.....	124	29	184	100	7	19	192	9	93	4	50	7	61	56	3	104	53	37	15	1147
Unknown.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PARTS OF BODY INVOLVED																				
Eye.....	0	0	1	0	0	0	22	2	2	0	4	1	1	0	0	0	4	6	1	44
Head.....	15	3	16	11	0	1	28	0	17	0	2	0	1	1	0	0	3	12	3	113
Back.....	21	4	34	18	1	0	3	0	8	0	1	0	2	0	0	61	0	1	1	155
Neck and shoulder.....	5	1	18	6	0	0	5	1	4	0	2	0	1	0	0	4	1	1	0	50
Chest.....	10	0	10	5	0	2	5	1	3	0	0	7	0	1	1	10	0	4	4	78
Abdomen and hip.....	9	0	7	8	0	2	4	0	8	0	0	7	0	1	1	10	43	10	5	670
Extremities.....	63	21	100	57	7	13	129	1	46	2	26	11	6	60	58	1	2	2	2	67
Unspecified and miscellaneous.....	8	0	9	10	0	2	9	5	3	0	0	0	0	0	1	1	0	0	0	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

² Includes FY 76 Transition Quarter.

Annual Statistics of Casualties

Annually the U.S. Coast Guard presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry, and the Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Officer in Charge, Marine Inspection, U.S. Coast Guard. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

- (a) Actual physical damage to property in excess of \$1,500;
- (b) Material damage affecting the seaworthiness or efficiency of a vessel;
- (c) Stranding or grounding (with or without damage);
- (d) Loss of life;
- (e) Injury causing any person to remain incapacitated for a period in excess of 72 hours, except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

Every event involving a vessel or her personnel which meets any of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of reportable casualties are not investigated by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. Through the cooperation of the masters, owners, and agents of commercial vessels many of the unreported casualties can be investigated.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1975, which ended June 30, 1975. Statistics concerning noncommercial recreational boating accidents can be found in CG-357, Boating Statistics, published by the Office of Boating Safety.

This summary also includes those casualties serious enough by reason of dollar damage or number of deaths and/or injuries to warrant the convening of a Marine Board of Investigation. Included in this year's

statistics are the following Marine Boards of Investigation: the collision in the Mississippi River of the Norwegian vessel *Baune* and the U.S. tanker *Keytrader*; the explosion of the Greek tanker *Elias* in Philadelphia; the stranding of the U.S. tanker *Transhuron* off the west coast of India; and the collision of the U.S. tanker *Edgar M. Queeny* with the moored Liberian tanker *Corinthos* at Marcus Hook, Pennsylvania. As a result of these casualties there were 55 deaths and 13 injuries. Dollar damage amounted to \$49,820,000 for vessels, cargoes, and property.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

The Information and Analysis Staff of the Office of Merchant Marine Safety will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these statistics should be addressed to Commandant (G-MIS/83), U.S. Coast Guard, Washington, D.C. 20590.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS

1 July 1974 to 30 June 1975
Fiscal year 1975

	Nature of casualty																		Total
	Collision, crossing, meeting, and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collision with piers and bridges	Collisions, all others	Explosion and/or fire-Cargo	Explosion and/or fire-Vessel's fuel	Explosion and/or fire-Bottles, pressure vessel	Explosion and/or fire-Structure, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure-Structure and equipment	Material failure-Machinery and engineering equipment	Casualty not otherwise classified		
Number of casualties.....	223	260	14	509	269	16	40	12	129	306	488	58	18	170	231	63	3905		
Number of vessels involved.....	684	721	44	1161	438	51	51	12	182	615	504	71	22	185	287	113	5551		
Number of inspected vessels involved.....	182	188	12	169	13	11	8	8	28	173	442	47	52	17	115	128	30	1704	
Number of un-inspected vessels involved.....	502	585	82	812	260	7	40	4	110	322	494	19	5	70	101	83	3847		
PRIMARY CAUSE																			
Pilot—State.....	8	9	—	21	6	—	—	—	6	22	—	—	—	—	—	—	—	72	
Pilot—Federal.....	2	1	—	1	1	—	—	—	2	4	1	—	—	—	—	—	—	18	
Licensed Officer—Documented seaman.....	128	114	11	373	93	2	1	2	150	120	26	3	1	3	2	11	1040		
Unlicensed—Undocumented persons.....	70	33	8	14	22	2	4	1	78	48	81	1	1	1	7	8	314		
All others.....	24	27	—	40	15	2	1	8	13	31	20	—	1	9	2	8	201		
Error in judgement-calculated risk.....	2	1	—	—	4	—	—	—	—	—	—	—	—	—	—	—	7		
Restricted maneuvering room.....	5	8	—	3	5	—	—	—	—	—	—	—	—	—	—	—	2	26	
Storms—Adverse weather.....	3	45	—	21	23	—	—	—	—	—	—	—	—	—	—	—	1	248	
Unusual currents.....	—	1	—	8	—	—	—	—	—	—	—	2	1	—	—	—	—	12	
Sheer, suction, bank cushion.....	3	3	—	3	1	—	—	—	—	—	—	—	—	—	—	—	—	22	
Depth of water less than expected.....	2	—	—	2	8	—	—	—	—	—	—	—	—	—	—	—	—	100	
Failure of equipment.....	16	47	—	58	28	5	34	8	65	56	61	55	2	2	98	221	32	788	
Unseaworthy—Lack of maintenance.....	—	—	—	—	—	—	—	—	—	—	—	35	—	—	—	1	40	—	
Floating debris—Submerged object.....	—	2	—	2	44	—	—	—	—	12	1	39	—	—	4	10	2	110	
Inadequate tug assistance.....	1	2	—	17	2	—	—	—	—	1	2	1	—	—	—	—	—	26	
Fault on part of other vessel or person.....	417	399	35	576	168	4	4	1	6	218	113	186	5	6	28	73	23	2186	
Unknown—Insufficient information.....	3	81	—	15	18	5	8	1	51	18	8	94	—	—	15	3	26	296	
TYPE OF VESSEL INVOLVED																			
Inspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Passenger and ferry—large.....	2	2	—	7	1	—	—	—	1	2	5	1	1	2	8	1	35	—	
Passenger and ferry—small.....	14	10	—	9	18	—	—	—	4	6	11	10	2	11	22	3	140	—	
Freight.....	25	48	2	75	30	6	32	3	8	24	53	3	26	13	63	11	447	—	
Cargo Barge.....	11	11	—	15	20	—	—	—	1	18	17	10	3	3	3	2	114	—	
Tankships.....	7	25	2	28	17	—	—	—	3	5	13	28	1	11	27	80	1	211	
Tank barges.....	120	75	7	208	67	7	1	—	—	93	51	6	5	13	5	7	665	—	
Public.....	1	1	—	1	1	—	—	—	1	—	—	—	—	—	2	—	7	—	
Miscellaneous.....	2	14	1	5	15	—	—	—	1	12	7	7	4	1	4	6	5	85	
Uninspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fishing.....	87	89	9	14	46	2	22	2	54	180	89	184	5	30	70	30	850	—	
Tugs.....	215	175	11	454	180	2	7	24	24	172	110	141	9	4	18	18	6	1486	
Foreign.....	49	110	2	57	28	4	3	1	7	35	81	8	1	4	2	7	394	—	
Miscellaneous.....	151	181	10	287	65	1	8	1	25	105	42	166	4	1	14	16	40	1117	
GROSS TONNAGE																			
300 tons or Less.....	356	327	21	487	240	1	41	2	108	289	230	428	26	5	72	115	46	2788	
Over 300 to 1,000 tons.....	151	139	10	322	82	3	5	7	189	46	82	2	13	7	27	1065	—		
Over 1,000 to 10,000 tons.....	126	140	8	253	98	8	2	3	7	106	88	26	26	7	34	43	24	938	
Over 10,000 tons.....	49	115	5	88	40	8	3	7	11	51	140	5	29	10	66	72	16	715	
LENGTH																			
Less than 100 feet.....	281	286	16	359	174	1	41	2	97	250	192	372	13	2	64	106	39	2277	
100 to less than 300 feet.....	329	281	23	611	181	9	6	1	18	235	121	186	15	5	81	24	42	2148	
300 to less than 500 feet.....	23	48	1	65	83	1	—	2	5	15	42	5	8	4	12	21	14	297	
500 feet and over.....	51	126	4	125	50	9	4	7	13	55	149	8	37	11	78	84	18	829	
AGE																			
Less than 10 years.....	327	293	17	504	187	9	24	7	43	231	167	137	82	6	72	107	65	2228	
10 to less than 20 years.....	174	179	13	282	102	6	10	—	28	158	130	120	12	5	38	39	24	1820	
20 to less than 30 years.....	79	85	8	176	57	3	6	1	24	98	90	121	13	4	30	36	7	838	
30 years and over.....	104	164	6	198	92	2	11	4	38	128	117	103	14	7	45	55	17	1165	
LOCATION OF CASUALTY																			
Inland—Atlantic.....	82	66	2	116	52	6	10	1	28	89	118	72	2	20	26	26	7	654	
Inland—Gulf.....	79	63	4	149	63	2	8	2	24	75	100	75	1	16	5	9	675	—	
Inland—Pacific.....	25	26	2	46	56	1	15	—	30	90	84	87	6	5	34	49	5	570	
Ocean—Atlantic.....	6	6	—	2	12	3	2	2	5	6	19	26	6	21	19	7	149	—	
Ocean—Gulf.....	13	4	2	3	30	—	4	—	8	9	3	43	6	18	23	11	172	—	
Ocean—Pacific.....	8	2	—	7	—	—	5	—	7	15	2	40	10	5	26	67	8	208	
Great Lakes.....	8	18	1	67	17	—	4	2	2	21	24	7	15	2	15	28	6	211	
Western rivers.....	49	65	3	167	24	3	4	1	11	88	41	89	1	2	3	11	557	—	
Ocean—Other.....	—	—	—	2	1	—	1	—	1	3	3	5	1	2	2	1	18	—	
Foreign waters.....	8	12	—	17	7	1	—	1	4	4	14	1	1	1	12	11	4	98	
TIME OF DAY																			
Daylight.....	111	146	10	286	132	8	32	8	73	175	204	227	28	8	116	154	36	1747	
Nighttime.....	100	101	4	253	112	5	14	4	46	191	157	186	27	7	42	57	20	1226	
Twilight.....	12	13	—	38	25	3	8	10	30	29	29	3	3	12	20	7	282	—	

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS—Continued

	Nature of casualty																
	Collision, crossing, meeting, and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collision with piers and bridges	Collision, all other	Explosion and/or fire—Cargo	Explosion and/or fire—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessels	Explosion and/or fire—Structures, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	Total
ESTIMATED LOSSES (X1,000)																	
Vessel.....	18548	18922	690	7770	7888	11085	3483	602	9808	36008	123	28588	1490	26000	175	160000	
Cargo.....	1389	4511	26	1852	230	414	7	21	302	2280	22	5811	755	26000	105	71000	
Property.....	1105	12067	5	10152	828	9600	644	527	644	606	55	1182	606	1805	1861	40000	
VESSELS TOTALLY LOST																	
Inspected.....	1	1	6	7	11	1	11	1	50	44	1	146	0	2	1	24	
Uninspected.....	11	6												7	3	301	

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY

	Nature of Casualty																
	Collision, crossing, meeting, and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collision with piers and bridges	Collision, all others	Explosion and/or fire—Cargo	Explosion and/or fire—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessels	Explosion and/or fire—Structures, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	Total
1 July 1974 to 30 June 1975																	
Fiscal year 1975																	
Number of casualties.....																121	
Number of inspected vessels involved.....																19	
Number of uninspected vessels involved.....																115	
Number of persons deceased/injured.....																190/74	
PRIMARY CAUSE																	
Personnel fault:																	
Pilots—State.....	18	10	1	6	3												
Pilots—Federal.....	17	2	1	4	3												
Licensed Officer—Documented seaman.....	9	1	1/2	5/5	5/3												
Unlicensed—Undocumented persons.....	31/13																
All others.....	1/1																
Error in judgement—Calculated risk.....																	
Restricted maneuvering room.....																	
Storms—Adverse weather.....																21/4	
Unusual currents.....																	
Sheer, suction, bank cushion.....																	
Depth of water less than expected.....																	
Failure of equipment.....																	
Unseaworthy—Lack of maintenance.....																	
Floating debris—Submerged object.....																	
Inadequate tug assistance.....																	
Fault on part of other vessel or person.....																	
Unknown—Insufficient information.....																	
TYPE OF VESSEL INVOLVED																	
Inspected vessels:																	
Passenger and ferry—large.....																	
Passenger and ferry—small.....																	
Freight.....																	
Cargo barges.....																	
Tankships.....																	
Tank barges.....																	
Public.....																	
Miscellaneous.....																	
Uninspected vessels:																	
Fishing.....																	
Tugs.....																	
Foreign.....																	
Miscellaneous.....																	

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY—Continued

												Nature of Casualty																
												Collision, crossing meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collisions with pier and bridges	Collisions, all others	Explosion and/or fire—Cargo	Explosion and/or fire—Vessel has	Explosion and/or fire—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	Total
1 July 1974 to 30 June 1975																												
Fiscal year 1975																												
PARTICULARS OF PERSON DECEASED/INJURED																												
Papers of deceased/injured:																												
Licensed by Coast Guard																												
Documented by Coast Guard	4/5																											
No license or document	10/8																											
Other—Unknown—Foreign	15/4																											
Status or capacity on vessel:																												
Passenger	4/1																											
Longshoreman—Harbor worker																												
Crewmember	24/12																											
Other	1/4																											
Activity engaged in:																												
Off duty																												
Deck department duties	11/6																											
Engine department duties	3/1																											
Stewards department duties	1/1																											
Handling cargo																												
Fishing																												
Drills																												
Passenger	4/1																											
Other and unknown	10/8																											
Location of vessel:																												
At anchor/at dock																												
Underway	24/8																											
Unknown	7/5																											
PART OF BODY INVOLVED																												
Head and upper limbs																												
Back and lower limbs	1/3																											
Chest	1/4																											
Extremities	1/1																											
Illness																												
Drowning																												
Unspecified and miscellaneous	12/5																											
	16/5																											
27/8																												

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS (Not Involving a Vessel Casualty)

												Nature of death																				
												Natural cause	Homicide	Suicide	Disappearance	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel—Into water	Falls into holds or tanks	Struck by object; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects, operating machinery and tools	Burns and scalds (other than electrical)	Heavy weather	Overtension, sprains and strains	Cuts, lacerations, bruises and punctures	Electrical shock and burns	Caught in lines, chains, or wire ropes	Punching and crushing	Total
1 July 1974 to 30 June 1975																																
Fiscal year 1975																																
Number of deaths	144											2	12			5	2	1	9	113	4	15	11	1	2	4	348					
Number of inspected vessels deaths	110											1	5			3	1	1	1	53	2	5	1	1	3	2	177					
Number of uninspected vessels deaths	34											1	7			2	1	1	3	6	10	6	1	1	5	171						
CAUSE OF DEATH																																
Intoxication																																
Physical deficiency or handicap	143											1				2	1	1	5	1	1	1	1	1	1	144						
Unsafe movement or posture																																
Psychological-immaturity, insanity																																
Unsafe practice																																
Violation of law or regulation																																
Human error	1											1				1	17	1	1	1	1	1	1	1	1	15						
Decks—slippery or cluttered																	6	8	1	1	1	1	1	1	2	35						
Weather conditions																																

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS—Continued
(Not Involving a Vessel Casualty)

1 July 1974 to 30 June 1975
 Fiscal year 1975

	Nature of death																	Total			
	Natural cause	Homicide	Suicide	Disappearance	Ships and falls—Leavers	Ships and falls—Gangways	Ships and falls—On deck	Ships and falls—Other	Falls from vessel— into water	Falls into holds or tanks	Struck by object falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into or over operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains, or wire rope	Pinchings and crushing	Heavy weather	Oxygenation, sprains and strains	Cuts, lacerations, bruises and punctures	Allergies and intoxications	Unknown or insufficient information
Poor maintenance or housekeeping.																					
Inadequate lighting.																					
Inadequate rails or guards.																					
Failure of equipment.																					
Inadequate supervision.																					
Inadequate life preservers.																					
Inadequate tools or equipment.																					
Inadequate protective equipment.																					
Improper use of tools or equipment.																					
Miscellaneous causes.																					
TYPES OF VESSELS INVOLVED																					
Inspected vessels:																					
Passenger and ferry—large	18		1					1	2										17		
Passenger and ferry—small	22							1	6										32		
Freight ships and barges	59	1	1	2	1	1	2	0	3	2	1								51		
Tankships and barges	16	2			1	1	2				5		1	1	1				21		
Public																			3		
Miscellaneous																			0		
Uninspected vessels:																					
Fishing	8	1	2					2	30		1	4		1		2	1	1	56		
Tugs	11	1	1					25		2	2	1		2	2	1	1		41		
Foreign	5	2		1	1			9	2	7	1							1	25		
Miscellaneous	10	2		1				27		7	1		1		1			2	53		
TIME OF DAY																					
Daytime	89	2	7		2	1	1	8	61	8	9	11	1	1	2	3	6	1	5	213	
Nighttime	45	4	4		3	1	1	1	40	1	5			2	2	1	1	2	2	106	
Twilight	10		1					12		1			1		1	1	1	1	20		
PARTICULARS OF DECEASED																					
Papers of deceased:																					
Licensed by Coast Guard	29		1		1			1	7		1	1	1	1	1	1	1	2	46		
Documented by Coast Guard	59	1	4	2	1	1	1	8	21	2	2	2					1	1	103		
No license or document	55	1	7	2				5	35	2	18	7		1	3	4	5	2	197		
Other—Unknown—Foreign																			2		
Status or capacity on vessel:																					
Passenger	36		1						9		1	1	1					1	1	48	
Longshoreman—Harbor worker	2		1					3	1	1	1								13		
Crewmember	104	1	10	4	2	1	7	92	3	9	7	3	1	4	2	4		2	261		
Other	2	1		1				2	9	5	8		1	1	1				26		
Activity engaged in:																					
Off duty	44		8					8	32	1	7	4		3	4		1	1	64		
Deck department duties	22	1	1		2			6	32	1	2	3	1	1			4		116		
Engine department duties	11	2		1				6	1	2	3	1							28		
Stewards department duties	6	1		1	1	1													9		
Handling cargo											2								3		
Fishing	16		1					12		1					2	1		1	36		
Drills																					
Passenger	16								7									1	25		
Other and unknown	18	1	1	3	1	1	4	22	1	4	3		1	1	2	2		1	27		
Location of vessel:																					
At dock anchor	44	1		4	2	1	4	41	4	4	3		1	3	1	3		2	118		
Underway	100	1	12	1				5	72	11	8	1	1	1	3	5		3	280		
Unknown																					
PART OF BODY INVOLVED																					
Head	2					1		1	4	2	3	9			1	2		1	26		
Back																			6		
Chest	1	1				1		1		2						2		6			
Extremities	1							1	104	1	1	1		1	2	3	2		195		
Illness	128			8	1		1	8	6	3	10	1	2	3	3	2	2	124			
Drowning	2	5		8	1												2	57			
Unspecified and miscellaneous	10	1	7	1													3	8			

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS (Not Involving a Vessel Casualty)

1 July 1974 to 30 June 1975

Fiscal year 1975

	Nature of injury																	Total		
	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and aspiration	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains or wire ropes	Pinch and crushing	Heavy weather	Oxygenation, strains and strains	Cuts, lacerations, bruises and punctures	Abrasions and miscons-	Unknown or insufficient information	
Number of injuries.....	120	19	120	209	5	17	223	11	50	1	52	7	62	108	1	83	48	49	32	1216
Number of inspected vessels injuries.....	107	19	116	178	3	10	169	5	44	1	45	7	30	87	1	76	40	47	24	1009
Number of unsuspected vessels injuries.....	13	—	13	31	2	7	54	6	6	—	7	—	22	21	—	7	8	2	8	207
CAUSE OF INJURY																				
Intoxication.....	6	4	4	6	—	—	—	—	—	—	—	—	—	2	—	2	3	10	2	30
Physical deficiency or handicap.....	1	—	4	4	—	—	—	—	—	—	—	—	—	1	—	13	2	12	12	30
Unsafe movement or posture.....	2	1	3	7	—	2	3	—	—	—	—	—	—	1	—	11	1	—	2	42
Psychological-immaturity, insanity.....	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	35	1	17
Unsafe practice.....	3	—	—	—	—	—	—	5	—	2	—	—	2	3	—	—	1	—	3	3
Violation of law or regulation.....	8	12	63	125	2	11	113	1	27	1	25	4	33	75	—	45	32	1	13	877
Human errors.....	8	3	1	14	27	—	1	7	5	—	1	—	14	1	1	—	—	1	—	52
Decks—slippery or cluttered.....	3	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	59
Weather conditions.....	3	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Poor maintenance or housekeeping.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5
Inadequate lighting.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5
Inadequate rails or guards.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32
Failure of equipment.....	2	—	3	2	—	—	46	—	1	—	12	2	4	1	—	—	3	—	—	76
Inadequate supervision.....	1	—	1	1	2	—	6	4	—	5	—	3	4	—	—	5	—	—	—	48
Inadequate life preservers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20
Inadequate tools or equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5
Inadequate protective equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28
Improper use of tools or equipment.....	7	—	—	5	1	—	9	—	—	—	—	—	—	—	—	—	2	—	—	45
Miscellaneous causes.....	2	—	—	4	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20
TYPES OF VESSELS INVOLVED																				
Inspected vessels:	6	4	6	8	—	—	5	—	1	3	—	1	2	—	—	1	—	3	37	
Passenger and ferry—large.....	2	—	4	6	1	1	1	—	—	—	—	—	—	—	—	1	—	1	3	20
Passenger and ferry—small.....	7	14	88	137	2	7	136	5	40	1	31	7	21	65	1	61	32	38	17	746
Freight ships and barges.....	14	1	15	20	2	2	20	—	1	—	8	3	11	—	10	6	5	3	122	
Tankships and barges.....	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	
Public.....	5	—	3	7	—	—	8	—	1	3	—	4	8	—	—	1	1	1	45	
Miscellaneous.....	2	—	2	3	—	—	1	17	3	—	3	3	10	—	2	5	1	5	65	
Uninspected vessels:	—	—	2	3	2	5	5	25	1	3	4	4	5	5	—	3	2	1	90	
Fishing.....	6	—	6	22	2	5	25	1	3	4	4	5	5	—	3	2	1	2	42	
Tugs.....	2	—	1	—	—	1	11	1	—	—	4	6	—	2	1	—	—	4	3	
Foreign.....	5	—	5	5	—	1	11	1	—	—	—	—	—	—	—	—	—	—	—	
Miscellaneous.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TIME OF DAY																				
Daytime.....	74	8	82	139	1	10	156	10	30	1	36	5	40	83	1	65	35	17	22	815
Nighttime.....	39	8	36	57	2	6	54	18	18	1	15	8	24	—	17	10	28	4	3	329
Twilight.....	7	3	11	13	2	1	13	1	2	1	2	4	1	—	1	3	4	3	72	
PARTICULARS OF PERSONS INJURED																				
Papers of person injured:	23	3	20	32	—	2	26	1	13	1	18	3	4	10	—	9	7	5	5	182
Licensed by Coast Guard.....	79	14	02	136	3	9	146	5	32	—	24	2	27	67	1	65	32	43	15	742
Documented by Coast Guard.....	18	2	17	41	2	6	51	5	5	—	10	2	21	31	—	9	9	1	12	242
No license or document.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other—Unknown—Foreign.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Status or capacity on vessel:	2	2	6	15	—	1	1	—	—	—	—	—	—	2	—	—	2	—	31	
Passenger.....	3	—	1	2	1	1	1	—	—	—	—	—	—	—	—	—	1	—	19	
Longshoreman—Harbor worker.....	110	—	118	186	3	15	209	10	50	1	46	6	48	99	1	83	46	49	26	1106
Crewmember.....	5	17	2	7	—	—	12	1	—	2	2	3	7	—	—	1	—	3	60	
Other.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Activity engaged in:	4	5	3	8	—	1	1	—	—	—	2	—	—	1	—	3	7	1	31	
Off duty.....	34	4	65	102	2	7	141	8	21	—	9	1	25	42	—	43	10	10	8	540
Deck department duties.....	43	2	30	42	2	8	45	2	15	1	28	6	7	26	—	25	17	12	4	315
Engine department duties.....	21	1	17	25	—	—	9	2	9	—	9	1	22	—	—	10	8	13	4	150
Stewards department duties.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	
Handling cargo.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34	
Fishing.....	2	—	1	8	—	1	8	—	1	—	2	—	6	4	—	1	4	—	1	
Drills.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	
Passenger.....	2	1	7	12	1	1	1	—	—	—	2	—	—	1	—	—	—	—	29	
Other and unknown.....	14	6	4	19	—	14	1	4	—	2	—	3	10	1	3	5	7	12	103	
Location of vessel:	46	16	50	84	2	10	104	6	26	—	27	4	22	88	—	39	24	31	20	548
At dock/anchor.....	76	8	79	125	3	7	119	5	24	1	25	3	30	70	1	44	24	18	12	668
Underway.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Part of body injured:	2	—	2	7	—	—	14	2	2	—	4	1	—	—	—	1	2	4	2	43
Eyes.....	10	2	10	12	—	—	20	—	6	—	—	1	—	—	—	1	—	8	69	
Head.....	25	1	19	81	—	1	6	1	—	—	1	—	—	47	—	4	3	3	141	
Back.....	2	1	6	10	1	1	6	4	—	—	2	—	—	2	1	—	2	3	39	
Neck and shoulder.....	1	—	1	1	1	1	1	2	—	—	2	—	—	2	1	—	2	1	17	
Chest.....	4	1	13	13	—	2	2	4	—	—	2	—	—	2	—	7	1	1	51	
Abdomen and hip.....	68	18	76	124	2	12	165	8	38	1	28	6	60	104	1	20	43	28	10	797
Extremities.....	8	1	2	11	1	—	6	5	—	—	6	1	1	5	1	2	3	3	9	59
Unspecified miscellaneous.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

ANNUAL STATISTICS OF CASUALTIES

Annually the U.S. Coast Guard presents a statistical summary of commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. The public, industry and the Coast Guard have utilized the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea.

The master of a vessel is required by law to report a marine casualty as soon as possible after its occurrence to the Officer-in-Charge, Marine Inspection, U.S. Coast Guard. Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in any of the following:

(a) Actual physical damage to property in excess of \$1,500.

(b) Material damage affecting the seaworthiness or efficiency of a vessel.

(c) Stranding or grounding. (With or without damage).

(d) Loss of life.

(e) Injury causing any persons to remain incapacitated for a period in excess of 72 hours; except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

Every event involving a vessel or her personnel which meets *any* of the conditions of a reportable casualty is of great concern to the Coast Guard. A number of reportable casualties are not investigated by the Coast Guard each year simply because they are not reported. Thus it is of primary importance that the masters of all vessels ensure that all casualties are reported and investigated. Through the co-operation of the masters, owners, and agents of commercial vessels many of the unreported casualties can be investigated.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1974, which ended June 30, 1974.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood. The below listed office will gladly assist in quantifying those limitations for each specific need. Comments and recommendations for changes or improvements to these data are solicited. Remarks should be addressed to Commandant(G-MIS), U.S. Coast Guard, Washington, D.C. 20590.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

	Nature of casualty															Totals		
	Collisions: crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	
1 July 1973 to 30 June 1974																		
Fiscal year 1974																		
Number of casualties.....	217	229	19	478	270	13	54	7	109	393	404	241	86	11	309	447	101	3888
Number of vessels involved.....	653	676	44	985	400	14	56	7	121	580	806	105	11	11	341	479	160	5418
Number of Inspected vessels involved.....	185	170	16	319	165	5	7	3	26	185	190	40	74	10	139	199	27	1763
Number of uninspected vessels involved.....	488	506	28	616	282	9	49	4	95	395	335	266	31	1	202	280	133	3650
PRIMARY CAUSE																		
Personnel fault:																		
Pilot—State.....	5	18	1	15	2	1	5	22	1	1	1	1	1	1	2	2	69	69
Pilot—Federal.....	1	5	1	12	1	1	5	14	1	123	92	26	3	1	2	3	39	39
Licensed officer—Documented seaman.....	112	76	14	245	60	2	1	1	1	111	62	28	1	1	2	3	43	73
Unlicensed—Undocumented persons.....	36	52	5	48	30	1	1	2	7	11	27	12	1	1	2	3	10	49
All others.....	18	15	2	28	3	2	4	2	7	18	12	1	3	10	1	10	10	158

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS—Continued

Nature of casualty																																	
1 July 1973 to 30 June 1974		Fiscal year 1974																															
Primary Cause	Collisions, grounding and overrunning	Collisions, while abandoning, docking or undocking			Collision, fog			Collisions with piers and bridges			Collisions, all others			Explosion and/or fire—Cargo		Explosion and/or fire—Vessel's fuel tanks, pressure vessels		Explosion and/or fire— Signature, equipment, all others		Grounding without damage		Foundering, capsizing and flooding		Heavy weather damage		Cargo damage		Material failure— Structure and equipment		Material failure— Machinery and en- gineering equipment		Casualty not otherwise classified	Total
		2	1	1	3	36	30	2	21	2	1	1	30	2	40	34	2	10	5	4	2	1	8	9	1	1	1	1	1	29			
Error in judgement-calculated risk.																																	
Restricted manuevering room.	2																																
Storms—Adverse weather.	4	5	3	36	36	36	36	2	21	2	1	1	30	2	40	34	2	10	5	4	2	1	8	9	1	1	1	1	4				
Unusual currents.	1	7	1	2	2	2	2	1	1	1	1	1	1	1	1	2	10	5	4	2	1	1	1	1	1	1	1	1	1	12			
Sheer, suction, bank cushion.	14	8	1	2	2	2	2	1	1	1	1	1	1	1	1	37	82	1	1	1	1	1	1	1	1	1	1	1	1	1	77		
Depth of water less than expected.	2	25	1	1	1	1	1	1	1	1	1	1	1	1	1	27	5	36	31	21	27	2	3	128	420	8	3	3	3	15			
Failure of equipment.	6	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Unseaworthy—Lack of maintenance.																																	
Floating Debris—Submerged object.																																	
Inadequate tug assistance.																																	
Fault on part of other vessel or person.	386	426	17	44	133	133	133	1	1	1	1	1	1	1	1	12	185	11	15	15	15	15	15	136	31	11	201	38					
Unknown—Insufficient information.	3	33	17	44	133	133	133	1	1	1	1	1	1	1	1	21	58	11	15	15	15	15	15	36	7	7	7	7	71				
TYPE OF VESSEL																																	
Inspected vessels:																																	
Passenger and ferry—large.	2	1	1	5	2	2	2	1	1	1	1	1	1	1	1	2	4	15	15	14	1	1	1	1	3	1	1	1	1	15			
Passenger and ferry—small.	12	10	3	1	1	1	1	1	1	1	1	1	1	1	1	2	24	52	42	10	62	62	62	62	50	50	50	50	50	138			
Freight.	11	25	5	7	6	6	6	1	1	1	1	1	1	1	1	2	20	10	50	1	4	4	4	4	30	30	30	30	30	121			
Cargo barge.	15	23	1	16	16	16	16	1	1	1	1	1	1	1	1	1	17	50	1	1	12	12	12	12	12	12	12	12	12	12			
Tankships.	7	15	1	13	13	13	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	7	28			
Tank barge.	120	88	4	145	49	49	49	2	5	5	5	5	5	5	5	1	88	89	89	12	1	1	1	1	1	1	1	1	1	1			
Public.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Miscellaneous.	17	8	33	8	8	8	8	2	2	2	2	2	2	2	2	1	17	14	1	1	6	1	1	14	14	14	14	14	14	14			
Uninspected vessels:																																	
Fishing.	71	55	3	15	48	2	26	2	32	123	87	89	89	10	92	175	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
Tugs.	236	161	11	236	123	123	123	5	5	5	5	5	5	5	5	1	106	105	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
Foreign.	32	61	5	28	14	14	14	1	1	1	1	1	1	1	1	1	27	84	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cargo.	78	147	4	193	31	31	31	1	1	1	1	1	1	1	1	1	31	55	38	43	5	5	5	5	5	5	5	5	5	5	5		
Miscellaneous.	51	82	5	24	16	16	16	2	6	6	6	6	6	6	6	1	24	21	40	40	3	3	3	3	3	3	3	3	3	3	3		
GROSS TONNAGE																																	
300 tons or less.	346	291	17	361	116	3	41	4	84	822	235	242	31	186	320	79	276	276	276	276	276	276	276	276	276	276	276	276	276	276			
Over 300 to 10,000 tons.	132	165	4	276	69	1	1	1	1	16	105	38	44	5	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44				
Over 10,000 to 100,000 tons.	142	130	17	208	78	6	6	1	1	12	106	102	14	25	14	14	25	14	14	14	14	14	14	14	14	14	14	14	14				
Over 100,000 tons.	33	84	0	90	57	4	4	2	9	47	150	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
LENGTH																																	
Less than 100 feet.	303	255	12	283	150	2	34	3	72	279	197	211	22	166	305	97	236	236	236	236	236	236	236	236	236	236	236	236	236	236	236		
100 to less than 300 feet.	189	200	18	486	12	2	18	1	82	222	133	84	23	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81			
300 to less than 500 feet.	26	39	6	40	24	1	1	1	1	12	106	102	14	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
500 feet and over.	85	92	8	126	75	6	4	3	14	34	165	7	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
AGE																																	
Less than 10 years.	854	319	11	892	150	4	28	1	40	206	188	85	49	6	6	105	107	81	81	81	81	81	81	81	81	81	81	81	81	81	81	221	
10 to less than 20 years.	130	160	16	216	92	4	4	1	1	24	137	135	66	20	2	2	80	80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	
20 to less than 30 years.	88	85	8	149	77	5	5	2	2	26	106	100	63	19	1	1	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	91	
30 years and over.	81	112	9	178	81	1	14	1	4	31	131	102	92	17	2	2	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	107	
LOCATION OF CASUALTY																																	
Inland—Atlantic.	24	30	3	72	51	2	8	4	26	99	134	41	4	2	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	60		
Inland—Gulf.	82	52	6	108	59	3	9	5	17	82	110	33	6	1	1	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	47	
Inland—Pacific.	16	27	2	31	46	4	18	1	1	14	66	34	6	3	3	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
Ocean—Atlantic.	4	2	2	3	5	2	2	1	1	9	15	10	16	2	2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
Ocean—Gulf.	10	12	3	8	13	1	1	1	1	7	5	3	3	3	3	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Ocean—Pacific.	15	8	2	5	21	1	1	1	1	10	33	7	7	7	7	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
Great Lakes.	7	12	3	71	27	1	1	1	1	1	22	25	9	9	9	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Western Rivers.	6	12	3	71	27	1	1	1	1	1	19	68	69	47	47	47	47																

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS —Continued

	Nature of casualty												To- tal			
	Collisions; crossing, meeting and overtaking	Collisions, while anchored, docked or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified
VESSELS TOTALLY LOST																
Inspected.....	3 9	1 1	2 5	1 21		4 17										54
Uninspected.....							5 33	49	1	14 91	4 4					208

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹

	Nature of Casualty													To- tals			
	Collision; crossing, meeting and overtaking	Collision, while anchored, docked or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fire—Boilers, pressure vessel	Explosion and/or fire—Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified	
1 July 1973 to 30 June 1974																	
Fiscal year 1974																	
Number of casualties.....	11 2	11 2	2 1	5 2	5 0	.2 .1	10 2	3 1	11 4	8 1	4 1	51 2		15 8	2 7	4 5	144 28
Number of inspected vessels involved.....	9 2	9 2	1 1	4 4	5 4	4/2 4/2	6/14 3/1	10/9 3/1	10/9 7	6/7 2/1	2/1 112/3			10/12 1/4	1/4 11/1		120 10/104
Number of uninspected vessels involved.....																	
Number of persons deceased/injured.....	6/86 20/7		/1	4/4	4/4												
PRIMARY CAUSE																	
Personnel Fault:																	
Pilots—State.....																1	
Pilots—Federal.....																	
Licensed Officer—Documented Seamen.....	3 2	1 2	1 1	3 2												16 18	
Unlicensed—Undocumented Persons.....																	
All Others.....	2 1															9 1	
Error in judgement/calculated risk.....	1																
Restricted maneuvering room.....																	
Storms—Adverse weather.....																22	
Unusual currents.....																	
Sheer, suction, bank cushion.....																	
Depth of water less than expected.....																	
Failure of equipment.....																	
Unseaworthy—Leak of maintenance.....																	
Floating Debris—Submerged object.....																	
Inadequate tug assistance.....																	
Fault on part of other vessel or person.....	3 1	6 1	1 1		2 2	4		3 1	1 1	1 1	2 9					18 24	
Unknown—Insufficient information.....																	
TYPE OF VESSEL INVOLVED																	
Inspected vessels:																	
Passenger and ferry—large.....	1/26															1/26	
Passenger and ferry—small.....	1/4		/1													1/6	
Freight.....	1/2	3/1		/1												16/9	
Cargo barge.....																	
Tankships.....																	
Tank barges.....																	
Public.....	1/																
Miscellaneous.....	2/	3/1														31/5	
Uninspected vessels:																	
Fishing.....	2/1		/5					1/6	1/1	1/2	2/3	1/1	58/1		1/6	74/27	
Tugs.....	1/2		1/		4/2	1/		4/3		1/	1/1	11/4		1/1	1/1	34/15	
Foreign.....	1/1	13				2/		4/		3/	6/3	2/2	17/		2/1	17/6	
Miscellaneous.....																28/5	

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹—Con.

	Nature of Casualty														Totals		
	Collision; crossing meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—Cargo	Explosion and/or fires—Vessel's fuel	Explosion and/or fire-Balloons, pressure vessel	Explosion and/or fire-Structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—Structure and equipment	Material failure—Machinery and engineering equipment	Casualty not otherwise classified
PARTICULARS OF PERSON DECEASED/INJURED																	
Papers of deceased/injured:																	
Licensed by Coast Guard.....	1/2	2/1	/1	1		1/	2/1		3/1		6						15/7
Documented by Coast Guard.....	1/4	1		1		3/2	2/10	3/1	6/8	6/7	2/1	92/4					11/17
No license or document.....	4/30	2/6		3/3	4	3/2	2/2	1	1/	12							144/77
Other—Unknown—Foreign.....	15/																29/3

SEE ATTACHED PAGE FOR THESE STATISTICS

Chart No. 1

Location of vessel:																	
At dock/anchor.....	3/28	2/	1	1/2	1/2	1/3	4/2	6/14	3/1	10/9	2/7	2/1	108/5				14/31
Underway.....	3/8	18/7	/1	3/2													168/73
Unknown.....																	
PART OF BODY INVOLVED																	
Head and upper limbs.....	4					1/			1/3		2/	3		1/		1/3	7/16
Back and lower limbs.....	8					1/			1/								15/
Chest.....	1					1/			1/								6/3
Extremities.....	23	16	/1	1/		4/2	7	2/	2/5	4	2/1	1/1					28/51
Illness.....																	1/1
Drowning.....	4	3/		2/	4			3/	1/	6	6/		85/				1/22
Unspecified and miscellaneous.....	2/	1/7		2/				2/2	1/	2/1		24/4					35/15

Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹ (Not Involving a Vessel Casualty)

	Nature of death														Total							
	Homicide	Suicide	Disappearance	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Falls and Falls—Other	Falls from vessel—Into water	Falls into holds or tanks	Struck by object; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinchings and crushing	Heavy weather	Oversetting, sprains and strains	Cuts, lacerations, bruised and punctures	Alterations and malconduct	Unknown or insufficient information
CAUSE OF DEATH																						
Total	2																					
9 Intoxication.....	2					1																
108 Physical deficiency or handicap.....	105					1	2		2	3	70	2	1									
88 Unsafe movement or posture.....																						
11 Psychological immaturity, Insanity.....	1					1			1	7	1	2	14									
27 Unsafe practice.....																						
2 Violation of law or regulation.....						2																

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS —Continued
(Not Involving a Vessel Casualty)

1 July 1973 to 30 June 1974
 Fiscal year 1974

	Natural cause	Nature of death																				
		Homicide	Suicide	Disappearance	Slips and falls—Ladders	Slips and falls—Gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel— Into water	Falls into holds or tanks	Struck by object; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pitching and crashing	Heavy weather	Oxygenation, sprains and strains	Cuts, lacerations, bruises and punctures	Altercations and misconduct	Unknown or insufficient information
CAUSE OF DEATH																						
28	Human errors.....				3	2																
2	Decks—slippery or cluttered.....																					
6	Weather conditions.....																					
	Poor maintenance or housekeeping.....																					
	Inadequate lighting.....																					
	Inadequate rails or guards.....																					
15	Failure of equipment.....																					
1	Inadequate supervision.....																					
	Inadequate life preservers.....																					
2	Inadequate tools or equipment.....																					
3	Inadequate protective equipment.....																					
	Improper use of tools or equipment.....																					
	Miscellaneous causes.....																					
TYPES OF VESELS INVOLVED																						
Inspected vessels:																						
26	Passenger and ferry—large.....	14	1	1					8	1	1						1					
1	Passenger and ferry—small.....																					
75	Freight ships and barges.....	35	2	1	1		3	4	14	4	1					2	1					
85	Tankships and barges.....	22	1	1	2				7							1	1					
	Public.....															4	1					
21	Miscellaneous.....	4		1	1				7	1	2					1						
Uninspected vessels:																						
41	Fishing.....	11	2	2	1				18	1	2					3	1					
45	Tugs.....	11		4				2	22	5						1						
1	Foreign.....							1														
31	Miscellaneous.....	8	2					1	20	2	6	8	1			1						
TIME OF DAY																						
178	Daytime.....	76	3	4	5		8	7	48	1	7	12	1	2	1	3	5					
97	Nighttime.....	32	2	3	5			46	2	8	1			2	2	1	1					
21	Twilight.....	10						4		2	1				2	1	1					
PARTICULARS OF DECEASED																						
Papers of deceased:																						
45	Licensed by Coast Guard.....	29	12	1	1				9	2	4	1				1						
113	Documented by Coast Guard.....	46	1	3	1	3		2	34	2	7	3			2	1	2					
134	No license or document.....	82	1	1	8	1		1	4	55	1	6	10	1	2	1	3					
1	Other—Unknown—Foreign.....	1															2					

SEE ATTACHED PAGE FOR THESE STATISTICS

Chart No. 2

PART OF BODY INVOLVED																	
21	Head.....				1			1		2	2	3	5			2	2
4	Back.....				1					1			1			1	2
7	Chest.....												2			3	
6	Extremities.....									1	1	3					1
101	Illness.....	95										1					
108	Drowning.....	1	8	8	2		1	3	87		1	14		1	1	2	2
54	Unspecified and miscellaneous.....	8	8	1	2			7		4							5

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-857.

VESSEL CASUALTY DEATHS/INJURIES
Chart No. 1

	S	T	A	O	F
Casualty not otherwise classified	-	-	1/1	4/15	26/41
Material failure - Machinery and equipment	-	-	1/2	12/42	139/423
Material failure - Structure and equipment	-	4/1	3/10	2/1	2/8
Cargo damage	-	-	-	-	-
Heavy weather damage	-	7/	-	7/	20/7
Powderings, capsizings and flooding	24/	79/5	-	56/2	90/33
Grounding without damage	-	1/	-	4/	12/13
Grounding with damage	1/3	6/3	1/1	4/	4/1
Explosion and/or fires - Boilers, pressure vessels -	1/1	3/3	1/1	1/1	1/1
Explosion and/or fires - Vessel's fuel	1/1	6/2	1/1	1/1	1/1
Explosion and/or fires - Cargo	1/1	2/1	1/1	1/1	1/1
Collisions, all others	2/	-	1/2	-	-
Collisions with piers and bridges	1/4	3/1	1/1	1/1	1/1
Collision, fog	1/	-	1/4	-	-
Collision, little or no docking or undocking	18/	-	1/1	1/1	1/1
Collisions; crossing meeting and overtaking	1/36	13/1	1/1	1/1	1/1

Status or capacity on vessel:

Passenger	1/4	1/1	1/1	1/1	1/1
Longshoreman-Harbor worker	-	-	-	-	-
Crewmember	-	-	-	-	-
Other	-	-	-	-	-
Activity engaged in:					
Off duty					
Dock department duties					
Engine department duties					
Stewards department duties					
Handling cargo					
Fishing					
Drills					
Passenger					
Other and unknown					

NON-VESSEL CASUALTY DEATHS

Status or capacity on vessel:
Passenger -
Longshoreman-Harbor worker
Crewmember
Other _____

32
17
234
13

Anti-virat connected ions:

Off duty	7
Deck department duties	153
Engine department duties	40
Stewards department duties	21
Hauling cargo	17
Fishing	20
Drills	1
Passenger	24
Other and unknown	13

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS¹

(Not Involving a Vessel Casualty)

July 1973 to 30 June 1974
Fiscal year 1974

		Nature of Injury																		
TOTALS	CAUSE OF INJURY	Slips and falls— Ladders	Slips and falls—gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel— into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinch and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises and punctures	Allerations and miscon- duct	Unknown or insufficient information
35	Intoxication	5	3	8				4											3	
67	Physical deficiency or handicap	6	1	6	15											25	3	1	11	
49	Unsafe movement or posture	3	3	6	17			1								14			2	
24	Psychological-innaturity, insanity																			
26	Unsafe practice	3	1	1	1	2	2	2	1			1	1	1	2	8	1	19	4	
6	Violation of law or regulation																		1	
76	Human errors	107	17	70	139	1	17	113	1	20	35	6	45	72		19	28	13	4	
68	Decks: Slippery or cluttered	6	46	11												2				
68	Weather conditions		7	25																
9	Poor maintenance or housekeeping																			
4	Inadequate lighting																		2	
2	Inadequate rails or guards																			
166	Failure of equipment	3	1	3	11			60	1	1	18		4	3						
31	Inadequate supervision		2	1	1			13	1	1									1	
21	Inadequate life preservers																			
19	Inadequate tools or equipment																			
18	Inadequate protective equipment																			
21	Improper use of tools or equipment																			
21	Miscellaneous causes																			
TYPES OF VESSELS INVOLVED																				
Inspected Vessels:																				
58	Passenger and Ferry—large	6	1	7	20	1		8	1		1		2	4		4	2		1	
	Passenger and Ferry—small							1												
625	Freight ships and barges	107	17	97	148	3	13	138	4	20	1	48	8	34	61	2	41	35	34	
185	Tankships and barges	22	2	24	31	2	6	28	6	16	16	5	8	19	4	9	3			
5	Public																			
57	Miscellaneous	4	5	9	1	1	14					2	5	12	1	1	2			
Uninspected Vessels:																				
38	Fishing		1		2	4	6	4											1	
67	Tugs		6	5	12	4	1	20		1		1	6	5		2	1		3	
28	Foreign																			
	Miscellaneous		4	1	2	5		8												
TIME OF DAY																				
810	Daytime		94	8	90	147	12	14	171	4	20	1	41	6	56	68	2	55	23	
341	Nighttime		51	10	49	61	8	5	41	1	6	1	13	1	19	28	1	11	11	
78	Twilight		5	2	3	20	2	2	9	1	1	1	15	2	5	3	4	3	2	
PARTICULARS OF PERSON INJURED																				
Papers of person injured:																				
219	Licensed by Coast Guard		98	1	17	35	2	10	36	2	6	23	2	9	14	1	12	5	8	
911	Documented by Coast Guard		113	18	112	159	11	9	168	2	21	1	41	5	39	67	2	55	36	
144	No license or document		9	1	13	34	9	2	17	1		3	1	23	15	2	4	1	5	
Status or Capacity on Vessel:																				
2	Passenger																			
123	Longshoreman—Harbor worker		5	1	32	9	2	15	1											
1139	Crewmember		145	19	130	105	18	10	206	4	27	1	64	7	53	84	1	67	42	
1	Other																			
Activity engaged in:																				
2	Off duty		67	11	73	110	10	10	129	1	14	19	4	48	30		37	15	22	
262	Deck department duties		59	6	27	53	2	0	65	8	11	1	38	8	8	31	1	20	11	
162	Engine department duties		19	2	29	82	1		12	2	7	7	2	7	2	12	10	16	13	
3	Stewards department duties.																			
1	Handling cargo																			
3	Fishing																			
1	Drills																			
124	Passenger		5	1	18	31	9	2	15	1										
1	Other and unknown																			
Location of vessel:																				
483	At deck/anchor		54	15	54	79	8	11	87	1	9	1	22	7	26	34	3	24	17	
782	Underway		96	5	89	149	14	10	134	4	18	47	1	45	62	3	45	26	19	
	Unknown																		14	

**STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL
VESSELS¹—Continued**

(Not Involving a Vessel Casualty)

1 July 1973 to 30 June 1974
Fiscal year 1974

	Part of body injured:	Nature of Injury																		
		Slips and falls— Ladders	Slips and falls— Gangways	Slips and falls—On deck	Slips and falls—Other	Falls from vessel— into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinchings and crushing	Heavy weight	Oveneration, sprains and strains	Cuts, lacerations, bruises and punctures	Altercations and miscon- duct	Unknown or insufficient information
31	Eye	1	1	3	3	1	1	9	2	3	1	2	1	2	1	1	41	1	1	5
79	Head	1	1	5	5	11	1	10	1	1	1	1	1	1	1	1	1	1	1	1
159	Back	1	1	41	41	1	1	11	2	1	1	3	1	1	1	1	1	1	1	1
37	Neck and shoulder	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	Chest	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
68	Abdomen and hip	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
805	Extremities	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
98	Unspecified miscellaneous	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

¹ Statistics concerning recreation and pleasure boating accidents are published in CU-357.

ANNUAL STATISTICS OF CASUALTIES

Annually the U.S. Coast Guard releases to the public a statistical summary of casualties involving commercial vessels. This year the following brief explanation of the statistics is given in an attempt to make them more meaningful.

Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in the following:

- (a) Actual physical damage to property in excess of \$1,500.
- (b) Material damage affecting the seaworthiness or efficiency of a vessel.
- (c) Stranding or grounding.
- (d) Loss of life.
- (e) Injury causing any persons to remain incapacitated for a period in excess of 72 hours; except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1972.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

Since the limitations are dependent upon the parameters of a problem, the below listed office will gladly assist in quantifying those limitations for each specific need.

Comments and recommendations for changes or improvements to these data are solicited. Remarks should be addressed to Commandant (G-MIS), U.S. Coast Guard, Washington, D.C. 20590.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

	Collision, no.	Nature of casualty										Totals							
		Collisions: passing, meeting and overtaking	Collisions: while anchored, docking or unloading	Collisions with piers and bridges	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boiler, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and equipment	Material failure—casually lost otherwise classified			
1 July 1972 to 30 June 1973																			
Fiscal year 1973																			
Number of casualties.....	207	203	24	536	294	18	27	5	17	312	338	140	61	16	827	126	78	3,104	
Number of vessels involved.....	631	528	80	1,027	439	21	28	6	103	404	455	160	72	18	896	484	120	4,907	
Number of inspected vessels involved.....	191	171	21	316	169	13	8	3	21	141	174	38	14	15	133	81	1	1,061	
Number of uninspected vessels involved.....	440	357	36	711	270	11	22	1	82	323	261	182	24	3	288	271	89	3,291	
PRIMARY CAUSE																			
Personnel fault:																			
Pilots—State.....	10	26	1	21	8	0	0	0	0	0	22	0	0	0	0	2	0	0	
Pilots—Federal.....	9	6	1	24	4	0	0	0	0	5	21	0	0	0	0	0	0	50	
Licensed officer—documented seaman.....	33	33	13	65	36	2	0	0	2	54	44	7	2	2	4	12	3	812	
Unlicensed—undocumented persons.....	149	64	13	122	66	0	2	0	5	127	79	37	1	0	10	6	2	805	
All others.....	14	19	8	24	11	6	1	0	0	3	18	3	1	3	13	4	1	154	
Error in judgement—calculated risk.....	0	1	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	5	
Restricted maneuvering room.....	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
Storms—adverse weather.....	5	20	3	29	30	0	0	1	1	38	25	19	81	8	20	0	4	289	
Unusual currents.....	1	7	0	44	3	0	0	0	0	1	3	1	1	0	0	0	0	59	
Sheer, suction, bank cushion.....	11	1	0	6	2	0	0	0	0	4	14	1	1	0	0	0	0	40	
Depth of water less than expected.....	0	1	0	4	0	0	0	0	0	0	15	12	0	3	0	0	0	87	
Failure of equipment.....	7	16	0	26	2	2	14	3	29	13	17	11	0	0	120	24	3	680	
Unseaworthy—lack of maintenance.....	0	1	0	6	112	0	0	0	0	1	2	3	2	13	1	0	4	11	
Floating debris—submerged object.....	3	2	0	10	3	0	0	0	0	7	3	1	0	0	2	0	2	131	
Inadequate tug assistance.....	3	2	0	492	148	6	1	0	0	1	2	0	0	0	0	0	0	21	
Fault on part of other vessel or person.....	385	307	21	492	148	6	1	0	0	6	149	124	81	11	8	152	27	30	1,908
Unknown—insufficient information.....	4	26	0	62	18	8	10	2	81	22	16	36	2	2	20	14	30	226	

¹ See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

1 July 1972 to 30 June 1973
Fiscal year 1973

	Nature of casualty															Points		
	Collision, crossing, meeting, and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collision with piers and bridges	Collision, all others	Explosion and/or fire—caused by vessel's fuel	Explosion and/or fire—caused by vessel's pressure vessel	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Tangle damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified				
TYPE OF VESSEL																		
Inspected vessels:																		
Passenger and ferry—large	3	5	3	4	3	1	2	1	2	2	1	2	2	1	2	20		
Passenger and ferry—small	2	6	3	6	13	1	1	17	8	4	30	15	15	1	1	145		
Freight	12	47	6	78	43	4	2	4	21	57	4	12	12	5	20	303		
Cargo barge	16	20	20	35	12	1	1	2	15	15	2	5	4	7	1	149		
Tankships	10	21	21	31	19	1	1	4	19	62	2	2	2	5	2	247		
Tank barge	120	63	63	114	45	2	2	5	68	47	4	3	5	8	8	236		
Public	11	10	3	12	13	1	1	2	1	2	1	1	1	1	1	4		
Miscellaneous	11	10	3	12	13	1	1	2	1	2	1	1	1	2	1	30		
Uninspected vessels:																		
Fishing	52	29	5	18	36	18	40	103	68	54	9	99	171	26	26	726		
Tugs	122	120	11	305	120	1	6	14	130	91	6	2	51	36	20	1,289		
Foreign	36	36	10	39	14	2	1	2	18	51	1	4	12	5	8	290		
Cargo	84	82	6	239	27	3	3	29	38	24	1	1	51	11	31	670		
Miscellaneous	46	40	4	20	43	5	3	28	13	10	8	33	41	7	7	314		
GROSS TONNAGE																		
300 tons or less	216	202	31	307	224	6	24	77	260	185	141	28	2	214	302	62	2,461	
Over 300 to 1,000 tons	189	100	8	301	74	5	1	7	74	51	23	3	49	12	39	890		
Over 1,000 to 10,000 tons	141	133	9	227	89	9	2	15	104	101	12	16	7	56	74	15	1,016	
Over 10,000 tons	35	13	12	92	82	4	1	4	36	118	4	25	9	58	66	14	620	
LENGTH																		
Less than 100 feet	202	180	21	320	166	7	22	70	209	162	127	24	2	177	296	40	2,067	
100 to less than 300 feet	304	192	17	537	178	9	4	24	186	113	43	10	1	89	41	56	1,807	
300 to less than 500 feet	25	52	3	17	33	4	1	3	27	80	8	10	4	28	34	3	284	
500 feet and over	38	104	16	114	92	4	1	4	43	130	2	28	11	74	58	19	749	
AGE																		
Less than 10 years	209	234	26	180	185	12	10	29	196	171	51	27	4	94	158	46	1,197	
10 to less than 20 years	142	136	14	264	99	7	10	20	86	104	82	12	6	74	74	26	1,125	
20 to less than 30 years	91	71	6	168	99	7	10	20	89	82	28	18	7	94	96	29	915	
30 years and over	89	87	14	145	86	3	6	28	94	58	49	15	1	106	128	20	987	
LOCATION OF CASUALTY																		
Inland—Atlantic	41	89	2	104	88	5	2	1	16	80	124	22	6	1	58	67	15	651
Inland—Gulf	96	44	8	105	81	3	6	1	26	82	111	26	1	47	57	18	746	
Inland—Pacific	7	10	1	31	50	1	12	25	61	56	28	8	3	37	32	10	478	
Ocean—Atlantic	4	10	2	1	6	1	2	3	9	7	13	17	4	30	32	11	186	
Ocean—Gulf	5	5	1	8	12	1	2	7	5	2	5	5	1	13	6	2	74	
Ocean—Pacific	7	4	1	2	22	1	2	1	25	4	21	21	1	47	126	6	294	
Great Lakes	5	12	1	53	18	2	1	5	15	29	1	1	1	15	16	2	410	
Western Rivers	41	98	6	165	28	5	1	5	23	16	17	1	1	20	10	13	27	
Ocean—other	2	1	1	2	5	1	1	2	6	18	1	1	1	4	7	1	106	
Foreign waters	3	11	1	22	16	2	1	1	6	18	1	1	1	11	18	3	82	
TIME OF DAY																		
Daylight	163	120	14	271	166	15	19	2	48	145	173	63	82	8	190	206	44	1,734
Nighttime	105	80	8	246	120	8	8	3	48	147	143	48	28	7	91	106	30	1,212
Twilight	9	3	2	10	8	6	6	16	22	4	4	1	57	22	4	4	162	
ESTIMATED LOSSES																		
Vessel	9,068	5,012	3,675	4,912	3,376	2,812	776	100	11,386	12,984	280	4,697	890	20	7,981	5,887	5,078	31,384
Cargo	888	136	8	1,240	3,006	323	1	790	6,068	18	438	1,076	180	908	320	1,262	16,892	
Property	330	1,881	7	26,926	689	1,022	6	131	3,418	48	197	125	45	215	816	308	34,498	
VESSELS TOTALLY LOST																		
Inspected	3	1	1	1	1	1	1	1	42	43	7	1	1	1	12	12	19	
Uninspected	18	6	3	15	13	2	8	42	43	36	12	81	12	12	302			

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹

	Nature of casualty															Total	
	Collision, evading meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collision with piers and bridges	Collisions, all others	Explosion and/or fire— cargo	Explosion and/or fire— vessel's hull	Explosion and/or fire— boilers, pressure vessel	Explosion and/or fire— structures, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machin- ery and engineering equipment	Casualty not otherwise classified
1 July 1972 to 30 June 1973 Fiscal year 1973																	
Number of casualties.....	9	4	3	9	6	4	6	0	3	21	4	0	2	38	7	1	108
Number of inspected vessels involved.....	0	2	2	5	0	4	0	0	0	0	0	0	0	10	2	0	28
Number of un inspected vessels involved.....	9	2	1	4	6	0	6	0	2	21	4	4	4	19	4	1	84
Number of persons deceased/injured.....	6/6	1/5	/6	10/10	17/2	2/3	13	0	2/3	24/1	16/1	0	0	24/12	7/8	2/0	131/74
PRIMARY CAUSE																	
Personnel fault:																	
Pilots—state.....																	
Pilots—Federal.....																	
Licensed officer—documented seaman.....																	
Unlicensed—undocumented persons.....																	
All others.....	7	1	1	2	2	1	2	1	2	3	12	4	4	1	4	6	35
Error in judgment—calculated risk.....																	1
Restricted maneuvering room.....																	
Storms—adverse weather.....					1	1											12
Unusual currents.....					1												
Shear, suction, back cushion.....																	
Depth of water less than expected.....																	
Failure of equipment.....								4									22
Unseaworthy—lack of maintenance.....																	6
Floating debris—submerged object.....																	
Inadequate tug assistance.....																	
Fault on part of other vessel or person.....	2	2	1	2	3		2		2					2			13
Unknown—insufficient information.....									4					1	1		13
TYPE OF VESSEL INVOLVED																	
Inspected vessels:																	
Passenger and ferry—large.....																	
Passenger and ferry—small.....																	
Freight.....																	
Cargo barge.....																	
Tankships.....																	
Tank barges.....																	
Public.....																	
Miscellaneous.....																	
Uninspected vessels:																	
Fishing.....	0/2																
Tugs.....																	
Foreign.....	1/4	1/															
Miscellaneous.....	5/0																36/17
PARTICULARS OF PERSON DECEASED/INJURED																	
Papers of deceased/injured:																	
Licensed by Coast Guard.....																	
Documented by Coast Guard.....																	
No license or document.....																	
Other—unknown—foreign.....																	
Status or capacity on vessel:																	
Passenger.....	1/	2/															19/6
Longshoreman—harbor worker.....																	2/3
Crew member.....	2/6	1/3	6	9/2	14/2	2/2	7/										96/47
Other.....	3/			10/8													14/17
Activity engaged in:																	
Off duty.....																	
Deck Department duties.....	1/2	1/2	2/	3/	6/	1/	1/										46/27
Engineering Department duties.....	1/4	1/	2/	4/2	6/1	2/2	5/										6/12
Stewards Department duties.....																	1/1
Handling Cargo.....																	1/4
Fishing.....																	34/3
Drills.....																	
Passenger.....	1/	2/															10/7
Other and unknown.....	3/			10/8													21/12
Location of Vessel:																	
At Anchor/Dock.....																	22/19
Underway.....	6/6	1/5	6	9/2	10/	2/3	4/	0/	2/7	2/1	5/	3/	12/1	4/4	7/2	2/	96/46
Other.....																	10/8
PART OF BODY INVOLVED																	
Head and upper limbs.....																	
Back and lower limbs.....																	
Chest.....																	
Extremities.....																	
Illness.....																	
Drowning.....																	
Unspecified and miscellaneous.....																	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-857.

STATICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

	Natural cause	Nature of death																				
		Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by object; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weight	Oxygenation, sprains and strains	Cuts, lacerations, bruises and punctures	Alterations and dislocation	Unknown or insufficient information
CAUSE OF DEATH																						
Total: 333																						
20 Intoxication	2	1							16													
128 Physical Deficiency or Handicap	123			1	1				2										1			
15 Unusual Movement or Posture									2	12	1											
24 Psychological—immaturity, insanity	4	12							1	6									1			
33 Unusual Practice						1			19	3	1	2							1			
1 Violation of Law or Regulation																						
70 Human Errors	1			5	2			1	40	2	9	3						1	6			
4 Decks—Slippery or Cluttered								1	3													
8 Weather Conditions									7													
Poor Maintenance or Housekeeping																						
Inadequate Lighting																						
Inadequate Rails or Guards																						
22 Failure of Equipment									2	1		2										
4 Inadequate Supervision									2													
Inadequate Life Preservers																						
Inadequate Tools or Equipment																						
2 Inadequate Protective Equipment										1												
Improper use of Tools or Equipment																						
2 Miscellaneous Causes										1									1			
TYPES OF VESSELS INVOLVED																						
Inspected Vessels:																						
23 Passenger and Ferry—large	14	2							1	7												
23 Passenger and Ferry—small	15								2	5												
91 Freight Ships and Barges	49	4	4		2	1		2	10	4	7	3					1	3	2			
31 Tankships and Barges	15	1			2	1			3	3	4					2						
3 Public	1		1		1																	
11 Miscellaneous	2								1	2	1	3							1			
Uninspected Vessels:																						
52 Fishing	0	4	2							26												
44 Tugs	5	3			3	1		1	4	2	7	2						1	1			
19 Foreign	5								18		6	1				2	1	2				
36 Miscellaneous	6																					
TIME OF DAY																						
184 Daytime	82	2	4		2	1		3	49	5	15	8				3	2	6	2			
129 Nighttime	36	6	8		6	2		1	54	2	8	2				1	1	1	2			
20 Twilight	5		1					1	8		3	1				1						
PARTICULARS OF DECEASED																						
Papers of Deceased:																						
47 Licensed by Coast Guard	27	3			1				7	1	4	4										
106 Documented by Coast Guard	50	3	6		3	2		1	27	2	5	4				1	1		1			
158 No License or Document	41	3	4					3	73	2	13	2				3	2	4	4			
27 Other—Unknown—Foreign	5	2			4	1		1	4	2	4	1				1		2				
Status or Capacity on Vessel:																						
35 Passenger	27		1						7													
39 Longshoreman—harbor worker	5	2			1			3	14	3	4	4				2	1	2				
235 Crewmember	80	6	12		6	3		1	53	4	15	10				2	2	4				
24 Other	5				1			1	7		7	1							2			
Activity engaged in:																						
37 Off duty	24	2	4						5										1			
145 Deck department duties	34	3	6		5	1		2	64	4	11	8				2	2	3				
28 Engine department duties	15		1		1	1			5		4	1										
16 Stewards department duties	12	1	1		1	1			1													
15 Handling cargo	1				1			2	1	2	3					1		3				
16 Fishing	7								9													
49 Drills	20	2	1					1	15	1	1					1	1					
27 Passenger	4				1				11		7	1				1			2			
27 Other and unknown																						
Location of vessel:																						
98 At Dock/Anchor	34	3	2		5	2		2	20	4	10	7				3	2	4	2			
215 Underway	81	5	11		8	1		3	84	3	14	2				1	2	3	2			
20 Other	8								7		2	2				1						
PART OF BODY INVOLVED																						
22 Head	1	1			2			3		2	12					1	1	2				
5 Back					1						2					1						
8 Chest		1								1	5								1			
4 Extremities											2								2			
122 Illness	119				1	1			99	1	2	1										
119 Drowning	1	10			8	2		2	12	3	3	10				3	1	3	3			
52 Unspecified & miscellaneous	2	6	3		1																	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS¹

(Not Involving a Vessel Casualty)

1 July 1972 to 30 June 1973
Fiscal year 1973

	Nature of injury																	
	Slips and falls - bedecks	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinch and crushing	Heavy weather	Oveningation, sprains, and strains	Cuts, lacerations, bruises, and punctures	Allergies and misconduct	Unknown or insufficient information
CAUSE OF INJURY																		
Totals: 1,188																		
28 Intoxication	5	1	6	5	2					1		2			1	1	6	2
22 Physical deficiency or handicap	7	3	3	8											15	4	4	1
39 Unsafe movement or posture	3		11	1											32			
36 Psychological—immaturity, insanity	2		1															
117 Unsafe practices	11	2	7	11	2		26	4	3	8	8	3	5		21	2	1	2
3 Violation of law or regulation																		
67 Human errors	109	16	85	81	4	7	91	29	27	38	1	37	68	3	35	29		14
55 Decks—slippery or cluttered	4	2	28	7			1							1	2			
63 Weather conditions	3	14	9				11	1					1	1	12	2		
10 Poor maintenance or housekeeping	2	3	2				1											
1 Inadequate lighting	2																	
5 Inadequate rails or guards																		
76 Failure of equipment	3		13				47	7	1	1	4	2	1		1	2		
14 Inadequate supervision	1		1															
3 Inadequate life preservers																		
9 Inadequate tools or equipment																		
6 Improper use of tools or equipment																		
4 Miscellaneous causes				1			1			3	1	1			1			
TYPES OF VESSELS INVOLVED																		
Inspected vessels:																		
49 Passenger and ferry—large	4	3	13	8	5	1	5	2	1	3	1	2	2	4	1	4	2	
30 Passenger and ferry—small																		
773 Freight ships and barges	109	16	106	88	8	2	127	2	27	23	8	3	21	68	8	68	37	15
120 Tankships and barges	21	1	15	1	1		16	2	5	4	9	2	4	6	2	7	4	1
18 Public	6	1	1						2	1	1	2	1					
36 Miscellaneous	1	1	5	2	1	1	4	1		3	1	6						
Uninspected vessels:																		
38 Fishing	1		1	4	1	1	9		4		9	6	1		2			
70 Tugs	3		1	3	1	1	24	1	2	2	1	8	7	1		2		1
4 Foreign												1						
21 Miscellaneous	1		2	3	1	1	6	1	3	2	2	2	1					
TIME OF DAY																		
797 Daytime	105	3	106	92	5	4	142	8	30	26	43	8	31	62	10	62	27	17
322 Nighttime	39	19	43	48	4	3	43	1	5	10	10	2	16	24	4	20	8	22
49 Twilight	2		8	1			9	2	2	2	1	3	1	3		2	3	
PARTICULARS OF PERSON INJURED																		
Papers of person injured:																		
155 Licensed by Coast Guard	17	12	16	32	2		29	2	7	6	14	2	3	13	4	8	1	1
874 Documented by Coast Guard	121	20	125	112	7	1	133	2	29	37	3	32	62	9	71	20	37	14
123 No license or document	4		15	9	3	4	31	1	1	8	4	13	15	1	5	4	4	2
16 Other—unknown—foreign	1		5	1			1	1						1	1			
Status or capacity on vessel:																		
21 Passenger																		
13 Loshoreman—harbor worker																		
113 Crewmember	3		140	130	8	6	188	6	37	38	62	3	48	66	14	88	33	42
21 Other	1		3				4		2	2	4				2	1	1	2
Activity engaged in:																		
87 Off duty	12	8	15	19	1		1			1		1		9	1	8	3	12
533 Deck department duties	61	5	73	66	4	3	120	8	18	11	7	4	40	28	11	45	11	4
322 Engine department duties	48	4	81	40	2		42	3	14	28	5	2	28	1	25	10	6	3
142 Stewards department duties	21	6	20	11	2		15	1	1	9	1	10	1	10	7	9	8	
11 Handling cargo	2		1	4	1	1	1											
21 Fishing	1		1	1			5		2		5	3						
11 Drills			1	4			5											
20 Passenger			6	3	1		1		1		1	2	1	2	1	2	1	1
21 Other and unknown	1		3		1		4		1	2	1	4	2	2	1	2	1	1
Location of vessel:																		
801 At dock anchor	64	17	87	68	7	4	90	2	15	9	26	8	18	28		39	12	7
630 Underway	81	6	97	75	3	3	97	4	21	29	20	2	28	30	15	42	28	11
37 Other	1		5	5	3		7		1	2	1	2	2	3	4	4	6	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-287.

**STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL
VESSELS—Continued
(Not Involving a Vessel Casualty)**

July 1972 to 30 June 1973
Fiscal year 1973

Statistics concerning recreation and pleasure boating accidents are published in CG-267.

ANNUAL STATISTICS OF CASUALTIES

Annually the U.S. Coast Guard releases to the public a statistical summary of casualties involving commercial vessels. This year the following brief explanation of the statistics is given in an attempt to make them more meaningful.

Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in the following:

- (a) Actual physical damage to property in excess of \$1,500.
- (b) Material damage affecting the seaworthiness or efficiency of a vessel.
- (c) Stranding or grounding.
- (d) Loss of life.
- (e) Injury causing any persons to remain incapacitated for a period in excess of 72 hours; except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is important to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1972.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

Since the limitations are dependent upon the parameters of a problem, the below listed office will gladly assist in quantifying those limitations for each specific need.

To better serve the public's pursuit of safety, the Coast Guard would like to change the presentation of data to serve the widest possible spectrum of maritime interests. Persons who have used these data in safety programs, educational pursuits, business management, and those who could use this information if presented in a different form are requested to forward their recommendations for changes to U.S. Coast Guard (GMIS/83), 400 Seventh Street SW., Washington, DC 20590.

The suggestions solicited last year in a similar request have been partially incorporated in the data base but are yet not reflected in the following tables.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

	Nature of casualty															Casualty not otherwise classified	Total	
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—bottles, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding without damage	Grounding with damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment		
Number of casualties.....	198	159	58	426	254	12	25	2	131	304	236	85	3	31	341	145	2,424	
Number of vessels involved.....	618	459	168	757	345	12	27	2	136	442	304	128	4	42	409	148	4,117	
Number of inspected vessels involved.....	164	131	60	285	159	10	3	2	36	155	162	13	1	28	181	103	1,507	
Number of uninspected vessels involved.....	454	328	108	502	236	2	24	...	97	287	142	110	3	14	228	45	2,610	
PRIMARY CAUSE																		
Personnel fault:																		
Pilots—State.....	5	7	12	12	1	...	...	...	5	19	...	1	...	2	1	1	62
Pilots—Federal.....	25	27	9	73	18	...	...	...	28	40	1	...	...	...	1	1	224
Licensed officer—documented seaman.....	37	20	17	78	15	3	...	7	48	37	5	5	11	...	1	1	264	
Unlicensed—undocumented persons.....	145	39	32	141	40	1	3	9	106	36	24	3	14	...	4	4	507	
All others.....	36	44	11	33	19	4	...	18	14	14	4	2	10	...	6	6	136	
Error in judgement/calculation risk.....	...	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...	4
Restricted maneuvering room.....	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	1	3
Storms—adverse weather.....	1	13	5	35	30	1	...	...	33	19	11	4	19	74	2	2	266
Unusual currents.....	1	1	...	11	1	2	1	1	14
Shear, suction, bank cushion.....	2	...	...	1	...	...	...	...	13	37	...	...	...	...	...	...	7
Depth of water less than expected.....	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	53
Failure of equipment.....	10	21	3	31	20	2	15	2	53	33	19	10	2	118	140	3	483	
Unseaworthy—lack of maintenance.....	1	...	...	1	...	...	...	...	1	5	...	14	...	36	...	1	56
Floating debris—submerged object.....	...	1	...	4	110	...	...	...	5	...	...	...	2	...	1	1	128
Inadequate tug assistance.....	1	...	...	1	...	...	...	...	...	3	...	...	...	...	...	...	0
Fault on part of other vessel or person.....	350	285	70	359	128	...	2	...	5	143	74	36	11	134	6	10	1,619	
Unknown—insufficient information.....	3	286	7	4	1	7	...	41	3	4	18	7	14	...	14	14	100	

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹—Continued

1 July 1971 to 30 June 1972
Fiscal year 1972

	Nature of casualty																	Totals
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire— cargo	Explosion and/or fire— vessel's fuel	Explosion and/or fire— boilers, pressure vessel	Explosion and/or fire— structure, equipment, all others	Grounding without damage	Grounding with damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified	
TYPE OF VESSEL																		
Inspected vessels:																		
Passenger and ferry—large	4	3	—	6	3	—	1	—	1	5	2	2	—	—	5	3	—	34
Passenger and ferry—small	3	8	—	4	12	—	8	17	7	1	—	19	8	13	5	8	—	81
Freight	19	30	11	101	49	4	2	13	27	65	1	—	103	55	14	1	—	507
Cargo barge	7	15	10	24	12	1	1	1	14	4	3	—	14	1	1	1	—	114
Tank ships	11	23	6	13	32	2	6	13	50	—	1	—	18	2	30	1	—	206
Tank barge	112	46	25	128	45	4	1	8	71	32	6	1	—	16	6	3	1	497
Public	2	2	1	—	2	—	—	—	—	—	1	—	1	6	5	3	—	19
Miscellaneous	6	4	1	9	4	—	2	—	2	6	2	—	1	6	5	5	—	49
Uninspected vessels:																		
Fishing	68	40	9	12	43	15	45	101	22	32	9	70	27	6	6	1	499	
Tugs	208	91	42	280	117	5	27	119	65	42	1	63	5	6	1	1	1,080	
Foreign	35	71	24	29	18	2	6	15	40	2	1	1	5	1	1	1	249	
Cargo	103	83	18	160	32	—	4	4	37	11	24	50	14	14	14	4	539	
Miscellaneous	40	43	15	21	26	4	15	15	4	10	2	1	31	12	4	4	243	
GROSS TONNAGE																		
300 tons or less	263	171	67	260	197	23	87	232	98	83	1	12	186	44	16	1	1,762	
Over 300 to 1,000 tons	163	126	44	255	57	2	3	12	88	27	29	2	63	8	16	1	895	
Over 1,000 to 10,000 tons	140	79	37	214	95	6	1	27	97	57	8	2	17	77	4	5	937	
Over 10,000 tons	32	83	20	58	46	4	1	10	25	92	3	1	11	81	52	4	523	
LENGTH																		
Less than 100 feet	252	140	80	207	164	24	80	206	84	70	1	6	156	41	16	1	1,497	
100 to less than 300 feet	303	193	81	424	139	5	31	179	66	48	1	14	118	17	16	1	1,658	
300 to less than 500 feet	25	32	16	82	27	2	1	14	21	40	2	8	36	26	5	319		
500 feet and over	38	94	21	94	65	2	1	11	36	114	3	1	14	99	4	4	964	
AGE																		
Less than 10 years	312	182	92	322	146	7	9	1	38	157	105	41	2	14	136	53	15	1,632
10 to less than 20 years	176	152	49	223	98	2	5	41	120	80	43	10	101	21	9	1	1,130	
20 to less than 30 years	73	80	17	141	77	2	7	1	35	94	66	23	15	103	53	11	800	
30 years and over	67	45	10	101	74	1	6	22	71	53	16	3	69	21	6	5	555	
LOCATION OF CASUALTY																		
Inland—Atlantic	21	36	8	86	42	2	5	16	70	87	18	2	38	18	6	6	436	
Inland—Gulf	83	51	25	137	54	4	3	31	66	63	22	1	38	7	3	3	580	
Inland—Pacific	11	26	5	23	47	3	7	24	64	24	14	3	49	22	2	2	324	
Ocean—Atlantic	6	2	1	1	7	—	1	11	8	4	5	1	6	21	1	1	125	
Ocean—Gulf	14	8	1	7	24	1	1	6	14	10	4	35	7	2	1	131		
Ocean—Pacific	9	3	2	2	9	1	4	22	16	1	12	17	72	44	1	1	215	
Great Lakes	9	4	1	71	20	—	3	11	31	6	8	24	11	19	3	3	196	
Western Rivers	28	17	6	93	23	—	1	1	9	2	1	1	21	8	1	3	251	
Ocean—other	7	3	1	1	2	—	1	3	9	16	—	1	19	7	5	5	125	
Foreign waters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TIME OF DAY																		
Daylight	77	93	32	207	161	10	14	1	88	132	107	54	2	17	238	94	18	1,330
Nighttime	104	56	24	192	87	1	11	1	38	148	113	29	1	12	80	40	10	956
Twilight	7	10	2	27	16	1	—	5	24	16	2	3	14	11	1	1	138	
ESTIMATED LOSSES																		
Vessel	5,290	3,363	1,744	4,088	3,757	460	3,854	47	21,316	19,587	76	6,330	122	71	8,527	3,100	735	82,475
Cargo	4,282	28	26	323	270	481	3	702	3,006	557	—	1,065	2	1,806	10	107	12,866	
Property	18	3,368	—	8,202	625	50	7	84	157	2	170	178	54	54	6	100	11,105	
VESSELS TOTALLY LOST																		
Inspected	1	—	1	2	3	1	—	2	9	—	1	—	2	—	5	5	22	
Uninspected	19	8	4	10	31	14	—	46	56	—	24	1	64	5	5	5	267	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-867.

STATISTICAL SUMMARY OF DEATH/INJURIES DUE TO A VESSEL CASUALTY

	Nature of casualty													Total		
	Collision; crossing meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires— cargo	Explosion and/or fires— vessel's fuel	Explosion and/or fire— boiler, pressure vessel structure, equipment, all others	Grounding with damage	Grounding without damage	Founderings, capsizings and floodings	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machin- ery and engineering equipment	Casualty not otherwise classified
Number of casualties.....	13	4	4	6	4	4	6	21	8	16	1	29	4	5	135	
Number of inspected vessels involved.....	1	3	1	1	51	28	26	1	1	1	6	1	1	1	1	1
Number of uninspected vessels involved.....	27	8	4	7	13	4	36	11	25	5	51	5	2	191		
Number of persons deceased/injured.....	15/13	1/5	3/1	3/7	10/3	44/7	4	23/41	11/2	21	1	43/14	16	2/3	177/110	
PRIMARY CAUSE																
Personnel fault:																
Pilots—State.....																
Pilots—Federal.....																
Licensed officer—documented seaman.....	1															
Unlicensed—undocumented persons.....	9	2	1	3	2	1									6	
All others.....	1														10	
Error in judgment—calculated risk.....																
Restricted maneuvering room.....																
Storms—adverse weather.....															5	
Unusual currents.....																
Sheer, suction, bank cushion.....																
Depth of water less than expected.....																
Failure of equipment.....	1														26	
Unseaworthy—lack of maintenance.....															10	
Floating debris—submerged object.....															2	
Inadequate tug assistance.....																
Fault on part of other vessel or person.....	1	2	2	1											11	
Unknown—insufficient information.....															19	
TYPE OF VESSEL INVOLVED																
Inspected vessels:																
Passenger and ferry—large.....	/1														7	
Passenger and ferry—small.....															1/12	
Freight.....																
Cargo barge.....															4/12	
Tankships.....															6/6	
Tank barges.....																
Public.....																
Miscellaneous.....															8/7	
Uninspected vessels:																
Fishing.....	2/3	1/1	1/4	1/2	8/2		1/3	2/2	11/	19/1		21/2	2	14/14		
Tugs.....								1/2		1/1		10/2		18/11		
Foreign.....	2/		2/1	1/4	1/1			2				5/2	1/	8/8		
Miscellaneous.....	11/9							1/1	11/16		1/2	5/2	4/	22/40		
PARTICULARS OF PERSON DECEASED/INJURED																
Papers of deceased/injured:																
Licensed by Coast Guard.....								1/	13/2		1/	1/3			17/7	
Documented by Coast Guard.....								2/2	20/4		1/	1/4			26/17	
No license or document.....	13/13	1/8	1/1	2/7	10/3	8/1	4/	21/29	11/1	20/4	40/8	1/4	2/2	128/133		
Other—unknown—foreign.....	2/		2/					2/			1/1	1/1			6/4	
Status or capacity on vessel:																
Passenger.....	9/7														12/13	
Longshoreman—harbor worker.....															12/9	
Crewmember.....	6/6	1/8	8/1	3/8	10/2	20/6	4/	5/14	11/1	10/2	26/10	7/6	2/1	131/133		
Other.....								0/	12/23	1/	2/2				22/23	
Activity engaged in:																
Off duty.....																
Deck department duties.....	5/8		3/1	3/4	8/2	15/4	1/	3/2	3/	2/	11/5	2/	1/	9/8	54/58	
Engine department duties.....								1/	12/	1/	1/	1/	1/		16/13	
Stewards department duties.....								1/	1/	2/					9/4	
Handling cargo.....								3/1	3/						11/3	
Fishing.....	2/1		1/					1/	3/	2/	10/	1/			26/7	
Drills.....															3/3	
Passenger.....	8/7														10/12	
Other and unknown.....															43/43	
Location of vessel:																
At dock.....															4/3	
At anchor.....	10/4	1/8	8/1	2/5	8/3	42/2	4/	20/40	11/2	17/4	41/18	7/6	2/8	19/8	182/194	
Underway.....	5/9	1/3	8/1	5/6	8/8											
Part of body:																
Head.....																
Back.....															7/7	
Chest.....																
Extremities.....															10/22	
Illness.....															2/2	
Drowning.....	18/		8/	3/	9/	4/2	1/	5/	10/	1/	21/	3/	2/	10/11	52/54	
Unspecified and miscellaneous.....	2/		1/	1/				9/16	1/	1/	2/2	7/3	2/3			

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

1 July 1972 to 30 June 1972
 Fiscal year 1972

	Natural cause	Nature of death																
		Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinching and crushing	Heavy weather
CAUSE OF DEATH																		
19 Intoxication	147	7	19		8	2	0	100	6	21	8	3		1	2	7	1	
149 Physical deficiency or handicap	145				1			14		1								8
2 Unsafe movement or posture								3										2
30 Psychological—immaturity, insanity	1	2	18		2			2										3
42 Unsafe practice								6										
6 Violation of law or regulation					5	1		42	2	5	1	2						1
61 Human errors						3	1	4										1
4 Decks—slippery or cluttered								5										
7 Weather conditions								1										
Poor maintenance or housekeeping																		
2 Inadequate lighting								2										
2 Inadequate rails or guards																		
11 Failure of equipment								1	1	1	1							
6 Inadequate supervision									2									
1 Inadequate life preservers									1									
Inadequate tools or equipment																		
2 Improper use of tools or equipment																		
4 Miscellaneous causes									1	1								
TYPES OF VESSELS INVOLVED																		
Inspected vessels:																		
16 Passenger and ferry—large	9	1	4					2										
22 Passenger and ferry—small	20		1					1										
47 Freight ships and barges	47	2	6		5	1	1	12	3	6	2	1						4
40 Tankships and barges	22		2					7	1	1	3							1
6 Public	3							1										1
1 Miscellaneous	1																	
Uninspected vessels:																		
64 Fishing	17	3	3		1			32		1	2	1						2
40 Tugs	18	4	1	2	2	1		17	8	1	4	1						1
29 Foreign	6							20	5		1						2	
34 Miscellaneous																		
TIME OF DAY																		
205 Daytime	96	1	4		5	2	8	55	2	17	4	2						3
128 Nighttime	46	6	13		8	2	1	41	3	4	4	1						3
15 Twilight	5		2				1	4										
PARTICULARS OF DECEASED																		
Papers of deceased:																		
42 Licensed by Coast Guard	32		4		1	1	1	2	1									2
100 Documented by Coast Guard	55	2	5		4		5	18		4	1							3
188 No license or document	57	4	8		3	1	1	74	3	14	7	3						6
20 Other—unknown—foreign	3	1	2				2	6	1	3								
Status or capacity on vessel:																		
42 Passenger	28	1	3					9										
27 Longshoreman—harbor worker	1		1		1	1	1	3	3	8	3	1						1
258 Crewmember	116	4	15		6	1	8	81	1	11	4	1						6
21 Other	3	2			1		7	1	2	1								2
Activities engaged in:																		
107 Off duty	65	3	13		2		3	16	1	13	1							5
84 Deck department duties	20		1		2		5	37	1	13	1							1
17 Engine department duties	13				1		2											
7 Stewards department duties	7																	
16 Handling cargo	46							1	3	6	2	1						3
28 Fishing	20	1			1		20			2	1							1
Drills																		
43 Other and unknown	16	1	8		2	2	1	17	1	2	2							2
Location of vessel:																		
18 At dock	3	1			1		1	10										
16 At anchor	9							6		1								
314 Underway	135	6	19		7	2	8	84	5	18	8	8						8
Part of body:																		
21 Head	3	1			2	1	5	2	3	11								1
12 Back		3			3		1	2	1	3	2							
14 Chest		3	1															
4 Extremities	1						1			1								
141 Illness	130		1		2	1	1	98	2	1	4	1						1
116 Drowning	1	1	11		2	1	1	2	1	1	8	1						6
31 Unspecified and miscellaneous	6		2		1		1											
Information																		
Oxygenation, sprains and strains																		
Cuts, lacerations, bruises, and punctures																		
Alterations and misconduct																		
Unknown or insufficient information																		

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

1 July 1971 to 30 June 1972
Fiscal year 1972

	Nature of injury																		
	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—deck	Slips and falls—other	Falls from vessel—into water	Falls into hole or tank	Struck by object; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinching and crushing	Heavy weather	Oversettions, sprains, and strains	Cuts, lacerations, bruises, and punctures	Allentations and misbands	Unknown or insufficient information
CAUSE OF INJURY																			
Totals: 1,243.....	145	23	180	128	12	12	224	4	71	41	56	2	41	65	11	109	38	45	36
48 Intoxication.....	15	4	8	7					1					1		11		5	3
26 Physical deficiency or handicap.....	5		5	4												17	1	2	
36 Unsafe movement or posture.....	1		5	6	1											2	1	33	4
41 Psychological—in maturity, lassitude.....			1	1			1							2		22	4	4	
200 Unsafe practice.....	25	3	7	19	3	3	48	2	8	13	20		6	12	1				
5 Violation of law or regulation.....							1												
648 Human errors.....	86	11	110	68	6	6	100	2	43	20	24	1	34	45	3	51	19	4	10
41 Decks—slippery or cluttered.....	4	1	25	6			1									1	2	1	
69 Weather conditions.....	3	2	14	9	1		12		10	1	2			4	7	2	1	1	
9 Poor maintenance or housekeeping.....	1		2			1	3												
3 Inadequate lighting.....							1												
4 Inadequate rails or guards.....			1	1	1		40		3		6		1						
57 Failure of equipment.....	2		1	3			7		1		2								
12 Inadequate supervision.....	2																		
1 Inadequate life preservers.....																			
4 Inadequate tools or equipment.....																			
11 Inadequate protective equipment.....																			
18 Improper use of tools or equipment.....	1			1	1		6		3	3	1			1		4	1		
11 Miscellaneous causes.....	1			1			2		1		1					1		1	4
TYPES OF VESSELS INVOLVED																			
Inspected vessels:																			
85 Passenger and ferry—large.....	8	1	11	9			6		3	1	1		2	3		2	4	4	4
23 Passenger and ferry—small.....	3		4	5			1	2	1	1	1		1	1	1	28	31	2	2
824 Freight ships and barges.....	109	19	123	75	5	5	189	3	43	21	37	2	14	40	9	90	8	8	9
144 Tankships and barges.....	16	2	23	17	1	2	26	1	13	6	10		1	4					
4 Public.....	1		1																
39 Miscellaneous.....	4	1	2	4			1	7	5	4			1	1	6				
Uninspected vessels:																			
62 Fishing.....			4	7	1	1	20		3	3	2		14	3		1	1	1	2
69 Tugs.....	3	10	9	4	1	16		2	5	2	2		7	2	1	4	2	1	
5 Foreign.....				1	1	1		1											
18 Miscellaneous.....	1		2		1		7		1	2			1	2					
TIME OF DAY																			
889 Daytime.....	95	9	109	92	6	8	171	4	52	31	41	2	30	39	9	36	31	19	25
224 Nighttime.....	44	14	61	28	3	3	44		16	8	13		10	20	2	20	7	20	9
60 Twilight.....	6		10	8	1	1	9		3	2	2		1	6		3	6	6	2
PARTICULARS OF PERSON INJURED																			
Persons of person injured:																			
131 Licensed by Coast Guard.....	20	5	13	16	2	2	17		2	11	13		6	1	15	3	3	2	2
931 Documented by Coast Guard.....	118	18	148	89	6	4	168	1	55	20	37	2	21	51	9	80	20	20	26
175 No license or document.....	7		21	22	4	6	38	3	13	9	5		20	8	1	5	5	4	6
6 Other—unknown—foreign.....							1		1	1	1								
Status or capacity on vessel:																			
24 Passenger.....	2		7	5		1	1	3					1	1				1	2
9 Longshoreman—harbor worker.....			1				1	2											
1,167 crewmember.....	185	28	169	120	11	9	212	2	65	20	52	2	38	68	11	108	36	42	33
43 other.....	8		3	3	1	1	8		3	5	3		3	1	1	2	2		
Activity engaged in:																			
194 Off duty.....	35	20	40	28	4	1	3		8		1		7	2	7	8	20	6	
645 Deck department duties.....	49	1	81	50	5	7	164	2	34	11	36	2	26	7	42	16	6	4	
283 Engine department duties.....	36	2	23	29	1		28		17	24	36	2	1	20	1	47	5	4	4
112 Stewards department duties.....	16		28	10			7		4	7			2	8	1	11	7	3	13
5 Handling cargo.....							1	2	2										
24 Fishing.....				2	4	1	12		2	1			8	1					2
14 Drills.....				2	5	2		1		2			1	1		1		1	
21 Passenger.....	2		7	4		1			3				1	1		1	2	1	1
35 Other and unknown.....	4		2	3		1	7		3	4	3			1		1	2	2	2
Location of vessel:																			
28 At dock.....	3	2		3		1	6		2	2	1		2	3		2			1
24 At anchor.....			4	2	2		8		1	1			1	1		1	1	1	
1,191 Underway.....	180	21	176	123	10	11	210	4	68	30	54	2	28	62	11	108	37	45	35
Unknown.....																			

See footnote at end of table.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹—
Continued
(Not Involving a Vessel Casualty)

	Nature of injury																	
	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and hypothermia	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or wire ropes	Pinching and crushing	Heavy weather	Overtension, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alterations and misconduct	Unknown or insufficient information
Totals																		
Part of body injured:																		
121 Head.....	2	2	9	15		29	10	3	6	1	2	1	1	1	19	1		
41 Eye.....	1		1			11	1	2	14		1	2	3		3	10		
28 Neck and shoulder.....	5	1	6	3		2	3	1										
704 Extremities.....	59	14	92	61	6	8	158	45	35	28	2	39	62	4	32	15	21	
61 Chest.....	10	4	8	17	2	1	9	2	2	2		2	1	2	1	2	1	
70 Abdomen and hip.....	9			16	3	1	6	5	6	4	1	2	1	18	1	3		
194 Back.....	37	2	44	25	2	2	11	6	1	1		1	50	1	1	2	4	2
24 Unspecified and miscellaneous.....	2		4	4	2		1	3										

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

lessons from casualties

Death Dealing Drinks

This true story of five thirsty crew members of a Gulf Coast fishing boat provides tragic proof of the adage, "Alcohol and salt water don't mix!"

After spending a night anchored in the vicinity of the Mobile Ship Channel—a lonely Saturday night eased by the fellowship of good shipmates and liberal amounts of wine and whiskey brought on board—the vessel and its crew were supposed to proceed to the snapper fishing grounds in the Gulf of Mexico. During the "morning after," however, the captain found a red and white can which was labeled "lacquer thinner." Highballs of orange juice mixed with the contents of the can were poured for all hands and the can was thrown overboard. One crew member didn't drink any of the brew because it didn't taste right to him, but the other four emptied their glasses.

The four that drank the concoction became ill and began vomiting. When their condition hadn't improved on Wednesday morning, the crewman who had not drunk any of the mixture decided to bring the men in for medical attention. The captain died within three days of their return to port; another crewmember died within a month. The two other crewmembers who drank the highballs lived, but were hospitalized for three months.

Autopsies of the bodies revealed that the cause of the death was the ingestion of carbon-tetrachloride. The chemical was used by personnel of the company that owned the fishing vessel to clean and maintain the fleet's electronic equipment. Though the chemical is normally kept locked in a store room ashore, the can found by the captain that Sunday morning was probably inadvertently left onboard the vessel by a repairman. The lesson should be obvious.

Where's the Fire?

In the spring of 1972 the crew of a vessel proceeding through the ice packed waters of Lake Superior found their vessel's engine system suddenly filled with CO₂ from the fixed fire fighting system. No evidence of fire was found, and none of the men aboard had activated the system.

Subsequent investigation indicated that the ship's vibrations while grinding through the ice caused some of the system's CO₂ cylinders to rotate in their brackets. Those that rotated were the "pilot" cylinders; their motion activated the rest of the system.

A confined space suddenly filled with deadly carbon dioxide can be fatal to those trapped within. In this case no one was hurt; however, the lesson to be learned is that special attention should be paid to the tightening of the cylinder rack bolts to prevent similar unwanted and possibly dangerous discharges.

ANNUAL STATISTICS OF CASUALTIES

Annually the U.S. Coast Guard releases to the public a statistical summary of casualties involving commercial vessels. This year the following brief explanation of the statistics is given in an attempt to make them more meaningful.

Casualties involving commercial vessels are required to be reported to the Coast Guard whenever the casualty results in the following:

- (a) Actual physical damage to property in excess of \$1,500.
- (b) Material damage affecting the seaworthiness or efficiency of a vessel.
- (c) Stranding or grounding.
- (d) Loss of life.
- (e) Injury causing any persons to remain incapacitated for a period in excess of 72 hours; except injury to harbor workers not resulting in death and not resulting from vessel casualty or vessel equipment casualty.

The statistical summary represents casualties to commercial vessels which meet the above criteria. It is impor-

tant to note that the summary represents casualties reported to Coast Guard Headquarters in fiscal year 1971.

This statistical tabulation is intended to summarize the casualty experience for the entire commercial fleet. Because this summary is so all-encompassing, the use of the statistics may lead to erroneous conclusions unless the limitations of the data are well understood.

Since the limitations are dependent upon the parameters of a problem, the below listed office will gladly assist in quantifying those limitations for each specific need.

To better serve the public's pursuit of safety, the Coast Guard would like to change the presentation of data to serve the widest possible spectrum of maritime interests. Persons who have used this data in safety programs, educational pursuits, business management, and those who could use this information if presented in a different form are requested to forward their recommendations for changes to: U.S. Coast Guard (MIS/83), 400 Seventh Street SW., Washington, D.C. 20590.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

Nature of casualty																	
1 July 1970 to 30 June 1971 Fiscal year 1971																	
Number of casualties.....																	
190	175	41	433	280	16	23	9	129	372	332	92	35	27	347	144	83	2,577
616	475	106	733	419	16	23	1	141	468	319	128	36	32	411	148	82	4,182
187	151	32	289	171	12	1	2	32	143	146	16	4	28	173	116	13	1,496
429	324	74	464	248	4	22	2	109	346	173	112	32	7	288	82	89	2,654
PRIMARY CAUSE																	
Number of vessels.....																	
7	8	12	9	9	1	1	1	3	23	21	1	1	1	2	1	1	76
31	24	9	66	13	.....	.....	1	28	21	2	.....	.....	.....	.....	1	1	197
Pilots—State.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pilots—Federal.....	31	24	9	66	13	.....	.....	1	28	21	2	.....	.....	.....	.....	.....	.....
Licensed officer—documented sea- man.....	47	18	21	72	21	2	1	7	54	23	4	2	7	9	2	3	263
Unlicensed—undocumented persons.....	140	49	20	123	49	1	5	11	22	43	22	1	1	9	1	6	604
All others.....	30	33	6	17	17	3	2	9	15	5	1	2	13	1	4	106	
Calculated risk.....	.....	.....	4	2	.....	.....	3	2	4	6	2	1	1	1	1	1	10
Restricted maneuvering room.....	1	20	1	59	18	1	1	84	28	21	32	20	82	3	3	23	
Storms—adverse weather.....	1	20	1	59	18	1	1	2	1	1	1	1	1	1	1	1	270
Unusual currents.....	.....	.....	18	1	.....	.....	1	1	1	1	1	1	1	1	1	1	19
Sheer, suction, bank cushion.....	1	.....	1	1	1	1	1	10	36	28	15	1	1	1	1	1	4
Depth of water less than expected.....	.....	.....	3	1	1	1	1	1	1	1	1	1	1	1	1	1	85
Failure of equipment.....	12	32	33	15	1	8	K	31	41	28	15	1	1	162	120	1	824
Unseaworthy—lack of maintenance.....	.....	1	.....	2	1	1	1	4	2	2	10	1	1	39	1	1	81
Floating debris—submerged object.....	2	2	8	132	.....	.....	1	3	1	1	1	1	1	1	1	1	181
Inadequate tug assistance.....	2	2	6	.....	.....	1	1	4	4	4	4	1	1	1	1	1	14
Fault on part of other vessel or person.....	343	288	36	307	129	.....	7	11	118	94	30	1	6	65	4	14	1,406
Unknown—insufficient information.....	1	.....	1	4	6	7	7	66	4	2	16	1	16	16	17	17	147

See footnotes at end of table

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS—Continued¹

1 July 1970 to 30 June 1971
Fiscal year 1971

TYPE OF VESSEL	Nature of casualty																		Total
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel	Explosion and/or fire-boilers, pressure vessel	Explosion and/or fire-structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified		
Inspected vessels:																			
Passenger and ferry—large	2	4		10	3		1	1	3	2				3	5	6	34		
Passenger and ferry—small	4	11	5	7	10		11	3	13	25	46	1	2	22	9	4	6	54	
Freighters	20	59	6	88	59				1	15	5	3	1	1	78	9	2	821	
Cargo barge	8	8	3	16	9				1	21	34	1	2	1	26	21	4	78	
Tankships	10	17	3	27	25			1	2	21	34	1	1	1	24	3	4	193	
Tank barge	134	36	15	110	52		1		11	56	44	6		1	24	3	4	97	
Public	2	10		2	3			1		2	4			5	4	1	1	34	
Miscellaneous	7	6		9	10			1	3	5	6			9	1			57	
Uninspected vessels:																			
Fishing	51	42	10	28	72		13		54	166	33	32	26	94	21	5	6	649	
Tugs	213	106	22	270	109			3	1	26	107	67	37	2	3	56	7	12	1,041
Foreign	37	51	21	35	21			1	1	5	13	40	1	2	2	8	1	1	360
Cargo barge	76	48	11	109	18				3	38	21	27	2	2	29	1	14	419	
Miscellaneous	52	68	10	22	28		1	3		22		12	15	2	41	3	7	306	
GROSS TONNAGE																			
300 tons or less	291	235	80	282	218		19	1	93	294	109	92	29	3	192	33	26	1,967	
Over 300 to 1,000 tons	156	64	17	191	63		2	2	12	83	34	27	3	3	64	4	21	747	
Over 1,000 to 10,000 tons	144	107	19	194	91		12	5	31	80	96	7	1	9	78	63	6	944	
Over 10,000 tons	25	69	20	66	4		3	2	5	31	78	2	3	17	77	48		494	
LENGTH																			
Less than 100 feet	266	212	35	240	184		17	1	86	266	93	80	28	2	166	31	25	1,724	
100 to less than 300 feet	297	127	44	332	134		2	4	33	162	90	44	4	5	112	15	24	1,482	
300 to less than 500 feet	32	57	7	57	31		8	4	14	22	50	1	1	7	38	26	3	368	
500 feet and over	31	79	20	104	70		6	2	1	8	39	86	3	3	18	92	66		628
AGE																			
Less than 10 years	270	171	52	274	150		6	6	1	38	185	121	44	19	14	106	45	21	1,823
10 to less than 20 years	192	137	33	234	118		3	6	1	43	137	89	43	11	2	117	22	16	1,204
20 to less than 30 years	100	96	12	125	85		7	4	4	26	76	89	29	5	18	111	62	12	849
30 years and over	54	71	9	100	66		4	3	24	90	40	12	1	3	77	19	8	578	
LOCATION OF CASUALTY																			
Number of casualties																			
Inland—Atlantic	27	35	7	80	58	1	6	3	30	85	94	9	1	2	42	15	6	501	
Inland—Gulf	96	46	18	136	82	3	4	2	30	120	70	32	27	1	36	3	8	745	
Inland—Pacific	9	26	3	40	34	3	6		16	57	20	15		1	35	14	5	284	
Ocean—Atlantic	6	4		13	3	1			4	10	6	7	8	8	45	32	3	145	
Ocean—Gulf	10	8	1	7	22		2	2	15	14	7	5	1		26	15	1	136	
Ocean—Pacific	11	2	1	19	1	3			9	23	4	7	13	13	46	33		174	
Great Lakes	4	12	67	25	2	1	1	1	1	16	9	3		20	17	1	178		
Western rivers	22	15	7	87	11	1	1	1	13	31	11	13	2	1	39	3	8	265	
Ocean—other	4		2	6	1				1	6	1	1	1	7	7	4	3	33	
Foreign waters	5	27	1	13	10	8			9	10	11	1		17	8	1		116	
TIME OF DAY																			
Daylight	90	97	12	272	183	6	17	6	66	185	114	63	31	18	222	84	19	1,455	
Nighttime	94	66	26	142	114	9	5	3	55	163	100	26	4	2	108	51	13	986	
Twilight	6	10	3	19	13	1	1		7	24	9	4		2	17	9	1	136	
ESTIMATED LOSSES																			
Vessel	4,830	3,406	1,499	4,462	7,078	90	4,600	137	20,908	9,870	10	2,960	461	88	16,222	2,060	302	78,061	
Cargo	184	3	79	727	189	891	10	21	663	777	1	603	16	344	2,057	18	16	6,020	
Property	101	371	3	6,171	691				166	1,155		63	6	21	82	4	46	8,911	
VESSELS TOTALLY LOST																			
Inspected	18	9	1	4	12	35		13	53	79		2	6		8	3	5	12	
Uninspected									53	79		34	6		82	3	5	364	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-857.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY

July 1970 to 30 June 1971

Fiscal year 1971

	Nature of casualty																
	Collision; crossing, meeting and overtaking	Collision, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires— cargo	Explosion and/or fires— Vessel's fuel	Explosion and/or fire— Boats, personal fire structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— Machinery and engineering equipment	Casualty not otherwise classified	Total
Number of casualties	17	3	6	9	9	1	11	3	29	1	24	1	2	6	159		
Number of inspected vessels involved	9	1/1	1/8	4/7	27/1	1/	9/27	2/2	10/16	1/1	35/2	1/1	2/2	77/44			
Number of uninspected vessels involved	15/12	2/1	1/6	4/7	8/3	1/	9/28	2/4	33/31	17/4	22/12	3/9	4/2	106/120			
Number of persons deceased/injured	18/21	2/1	2/7	4/15	35/4	1/	48/47	17/4		1/1	67/14	3/10	6/4	243/163			
PRIMARY CAUSE																	
Personnel fault:																	
Pilots - State																2	
Pilots - Federal																15	
Licensed officer - documented seaman	5		3	1	1		1	1	1		1		1			32	
Unlicensed - undocumented persons	4	1	1	2	3	1	4	2	3		8		1			17	
All others	6	1	1				5	1					1			1	
Calculated risk																	
Restricted maneuvering room													1			8	
Storms - adverse weather																	
Unusual currents																	
Shifts in the bank cushion																	
Depth of water less than expected																	
Failure of equipment	1	1		2	1		2	3	8		1		17	2		38	
Unseaworthy - lack of maintenance								2			2	1	3	1		8	
Floating debris - submerged object								1			1					4	
Inadequate tug assistance																	
Fault on part of other vessel or person	1			2	1		4		6	1	1		1			11	
Unknown - insufficient information					1				6		7	2				23	
TYPE OF VESSEL INVOLVED																	
Inspected vessels:																	
Passenger and ferry - large																/1	
Passenger and ferry - small	2/7		1/1	1/7	27/1	1/	1/1	1/1	1/1		1/1	1/1	2/1	2/1	2/13	32/12	
Freight																1	
Cargo barge																31	
Tankships																2/1	
Tank barges																	
Public																9/16	
Miscellaneous																	
Uninspected vessels:																	
Fishing	1/1		1/1	1/3	8/2		1/5	2/2	5/2	16/2	27/2		12/5	3/1	74/21		
Tugs	3/3	1/1	1/1	3/3			1/4	4/4	4/4	1/1	6/	1/1		1/		2/13	
Foreign	1/1						2/	2/1	2/1	1/1	1/	1/5		6/8		6/8	
Miscellaneous	10/7	1/	7/8	7/4	1/		8/18	22/24	1/	13/1	1/1	8/1	3/9	1/	6/71		
PARTICULARS OF PERSON DECEASED/INJURED																	
Papers of deceased/injured:																	
Licensed by Coast Guard	1/		1/		2/2				4/1		2/	1/	7/			16/4	
Documented by Coast Guard	8							1/	1/2	1/3	2/	1/	28/	1/		29/15	
No license or document	13/12	2/	2/7	2/13	35/4	1/	9/27	3/2	20/27	17/4	43/3	3/9	24/14	6/4	186/127		
Other - unknown - foreign	1/1							2/	8/16			1/				12/17	
Status or capacity on vessel:																	
Passenger	6/5	1/	1/4	1/11		1/	5/12	1/	3/2	7/1	6/		2/5		2/41		
Longshoreman - Harborworker							4/4		1/3			1/1		2/		6/10	
Crewmember	9/14	1/1	1/3	4/4	10/3		11/	2/8	21/27	10/8	37/2	1/	61/8	1/	4/2	150/43	
Other	7/2				25/1		1/		18/15		4/1		3/	3/9		53/29	
Activity engaged in:																	
Off duty	1/9		1/1	2/1	3/1		2/		7/12	3/	8/1		26/4		1/2	25/27	
Deck department duties	3/5		1/2	1/3	1/		4/		5/8	4/2	7/	1/	10/			48/31	
Engine department duties							1/		4/7				6/			15/13	
Stewards department duties									1/2				1/1			9/2	
Handling cargo																1/1	
Fishing	1/	1/			7/7				1/	3/	22/2		7/4		3/	45/6	
Drills																	
Passenger	6/6		1/4	1/11		1/	5/12	1/	3/2	7/1	6/		2/6			31/41	
Other and unknown	4/2	1/			24/2		4/9	1/	22/16	1/	3/	6/	6/	3/9	2/2	66/42	
Location of vessel:																	
At dock								8/28	2/3	16/16			4/2			33/49	
At anchor		1/	1/						1/	24/26	1/		4/6	3/9		36/44	
Underway	18/21	1/1	1/6	4/15	35/3	1/	1/8		3/8	17/3	43/2	1/	49/7	1/	4/2	174/70	
Unknown																	
PART OF BODY INVOLVED																	
Head and upper limbs	4								2/		1/	1/	8/3	1/	1/	7/23	
Back and lower limbs	4	1/	2/	2/	2/			2/		1/2	1/	1/	2/		1/23		
Multiple injuries (internal and external)	2/13		4/	9/	2/		4/24	4/	6/37	2/	3/2	4/9	7/9	2/	18/117		
Death - heart									1/							2/	
Death - drowning	12/1	1/	1/	3/	34/7	1/	1/	4/	2/	3/	16/	41/	46/2	6/	164/		
Death - disease, other	1/	1/	1/						33/	2/	2/	41/	2/	3/		51/	

Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

1 July 1970 to 30 June 1971
 Fiscal year 1971

	Natural cause	Nature of death																				
		Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains, or wire ropes	Pinchings and scratching	Heavy weather	Oxygenation, sprains and strains	Cuts, lacerations, bruises, and punctures	Alterations and misadventure	Unknown or insufficient information
CAUSE OF DEATH																						
Total																						
12 Intoxication.	1		1		1	1			7			1										
189 Physical deficiency or handicap.	153				1				4			1										
15 Unsafe movement or posture.	4	13				1		6	14	12	2											
33 Psychological-immaturity, insanity.									15	3	9	8		1								
45 Unsafe practice.									14	3	6						1	2				
1 Violation of law or regulation.	1																					
33 Human errors.					1			2	18	6	6			1	1		1					
7 Decks—slippery or cluttered.							1		7	5	1	1		1								
9 Weather conditions.										2	3											
Poor maintenance or housekeeping.										7												
5 Inadequate lighting.										6		9	2									
8 Inadequate rails or guards.						1	1			1	1	3						1				
20 Failure of equipment.										10	1	2	5									
6 Inadequate supervision.										1												
1 Inadequate life preservers.																		1				
1 Inadequate tools or equipment.																						
2 Inadequate protective equipment.																						
1 Improper use of tools or equipment.																						
31 Miscellaneous causes.	1								24			2						3				
TYPES OF VESSELS INVOLVED																						
Inspected vessels:																						
28 Passenger and ferry—large.	22	2							3									1				
24 Passenger and ferry—small.	20			1					2									1				
109 Freight ships and barges.	55	3	10		2	1		3	18	5	8	2	1					2				
44 Tankships and barges.	20	1		2	1		1		10	1	2	5						1				
3 Public.	1								1	1												
14 Miscellaneous.	6								3	3								1				
Uninspected vessels:																						
58 Fishing.	13	1							37									2				
36 Tugs.	10	1	1					2		20	1	1	5		1							
21 Foreign.	3	1							1	5	2	5		1			1	1				
52 Miscellaneous.	4								5	25	3	10	1					2				
TIME OF DAY																						
242 Daytime.	92	2	12		2	1		7	70	10	23	10	1	1	1		4	2				
132 Nighttime.	56	1	1		3	2		3	49	3	6	4	1	1				1				
15 Twilight.	6	2	2						6													
PARTICULARS OF DECEASED																						
Papers of deceased:																						
59 Licensed by Coast Guard.	36	5		1	1				11	3	1	1						1				
97 Documented by Coast Guard.	54	3	6	1	1			1	21	4	3	1	1									
228 No license or document.	63	2	4	3	1			9	91	6	23	12	2					4				
5 Other—unknown—foreign.	1	2						1		2				1				4				
Status or capacity on vessel:																						
59 Passenger.	43	2			1	1			10									1				
28 Longshoreman—harbor worker.	2	1			1				4	2	8	5						1				
251 Crewmember.	106	3	13		2	2		3	86	9	18	2	1	1		4	1	1				
81 Other.	4	1			1			5	24	2	8	1	1	1				2				
Activity engaged in:																						
123 Off duty.	64	2	10			3			42			2										
73 Deck department duties.	15	1	2					8	30	6	10	2	1	1			1	1				
32 Engine department duties.	18								6	4	1	1										
9 Stewards department duties.	6	1							1													
23 Handling cargo.	1							1	1	1	12	4										
41 Fishing.	20		1						18								2					
0 Drills.																						
41 Passenger.	27	2			1				9			1						1				
47 Other and unknown.	3	1			2			6	17	2	6	4		1	1			1				
Location of vessel:																						
100 At dock.	27	4	3		3	3			6	20	6	15	9		1	1		2				
82 At anchor.	19		2						3	34	12	3					2	2				
207 Underway.	106	1	10		2			1	70	6	2	2	1	1				1				
PART OF BODY INVOLVED																						
48 Head and upper limbs.	1	3	5		4	1		3	1	8	16		1	1			1					
1 Back and lower limbs.								2	3	8	1							2				
25 Multiple injuries (int. and ext.).	1	1						1	1	1	1		1			2	1	2				
146 Death—heart.	143								1	121												
134 Death—drowning.	3	5			1			3		1	4	14		1		1	1	2				
38 Death—diseases, other.	6	1	5																			

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSEL
(Not involving a Vessel Casualty)

1 July 1970 to 30 June 1971
 Fiscal year 1971

Nature of injury																			
	Slips and falls—holders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oxygenation sprays and serums	Cuts, lacerations, bruises and punctures	Alterations and misconduct	Unknown or insufficient information
CAUSE OF INJURY																			
Totals																			
49 Intoxication	8	3	2	11	1	—	1	—	—	—	2	—	3	3	11	—	6	2	
44 Physical deficiency or handicap	5	1	4	6	—	—	—	—	—	—	19	1	77	3	1	1	4	49	
172 Unsafe movement or posture	16	2	10	23	2	4	5	—	13	—	1	4	8	1	—	—	2	1	
58 Psychological-immaturity, insanity	1	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
191 Unsafe practice	14	3	4	22	—	4	51	4	9	4	18	3	11	18	4	17	7	4	
5 Violation of law or regulation	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
755 Human errors	120	12	10	121	8	8	95	4	57	13	22	2	34	77	2	41	38	3	
32 Decks—slippery or cluttered	2	—	16	12	—	—	—	—	—	—	—	2	5	8	—	1	1	2	
55 Weather conditions	1	—	11	5	2	—	—	—	5	2	—	—	—	—	—	—	—	—	
16 Poor maintenance or housekeeping	1	—	3	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2 Inadequate lighting	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2 Inadequate rails or guards	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
55 Failure of equipment	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12 Inadequate supervision	1	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Inadequate life preservers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4 Inadequate tools or equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
14 Inadequate protective equipment	2	—	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
18 Improper use of tools or equipment	1	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
31 Miscellaneous causes	1	—	—	—	1	—	6	1	2	1	10	—	—	1	1	2	2	3	
TYPES OF VESSELS INVOLVED																			
Inspected Vessels:																			
83 Passenger and Ferry—large	3	—	13	12	1	—	7	—	2	1	1	3	6	—	6	4	2	2	
25 Passenger and Ferry—small	—	5	7	—	—	—	—	—	—	—	1	1	1	—	1	4	—	—	
1087 Freight ships and barges	127	20	19	156	4	11	140	6	81	16	44	4	31	78	15	132	45	59	
146 Tankships and barges	31	1	16	22	—	1	17	5	7	1	10	1	8	2	12	5	5	2	
14 Public	4	—	1	2	—	—	2	—	2	—	—	—	—	—	—	—	—	—	
27 Miscellaneous	1	—	1	1	—	—	9	—	1	—	8	3	2	—	4	—	—	—	
Uninspected Vessels:																			
53 Fishing	2	—	4	4	1	2	14	2	2	1	—	11	3	—	2	2	—	3	
66 Tugs	3	—	3	7	4	1	14	—	5	—	4	6	7	—	8	2	—	1	
10 Foreign	2	—	1	1	—	—	4	—	—	—	—	1	—	—	—	—	—	—	
25 Miscellaneous	—	—	—	3	1	2	10	2	—	1	1	1	2	1	1	—	—	—	
TIME OF DAY																			
1040 Daytime	118	9	93	140	7	7	150	12	74	18	45	4	62	78	12	132	46	32	
405 Nighttime	63	11	45	70	8	8	87	3	19	2	15	2	11	26	3	24	11	6	
71 Twilight	5	1	4	5	—	2	12	—	8	—	4	—	6	3	3	9	5	2	
PARTICULARS OF PERSON INJURED																			
Papers of person injured:																			
251 Licensed by Coast Guard	30	8	21	32	2	1	34	4	17	10	17	2	7	13	4	22	9	18	
1084 Documented by Coast Guard	134	16	109	161	6	10	140	7	78	7	38	4	31	80	13	134	44	50	
181 No license or document	12	—	12	22	4	6	45	4	6	3	9	—	21	14	1	9	9	4	
0 Other—unknown—Foreign	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Status or capacity on vessel:																			
32 Passenger	3	—	5	10	1	—	4	—	1	—	—	1	1	—	—	1	5	—	
12 Longshoreman—harbor worker	—	—	1	2	—	—	4	2	—	1	—	1	—	—	1	—	1	—	
1430 Crewmember	172	21	138	201	10	16	194	12	100	19	59	6	61	103	17	163	66	66	
42 Other	1	—	—	2	1	1	17	1	—	1	4	6	6	3	3	1	—	3	
Activity engaged in:																			
274 Off duty	52	16	22	39	3	3	16	1	12	—	6	1	3	17	5	21	17	34	
572 Deck department duties	55	2	53	96	5	10	126	8	35	8	32	44	9	70	16	5	4	4	
383 Engine department duties	47	3	29	44	1	2	43	3	36	16	34	5	12	24	2	48	14	15	
188 Stewards department duties	16	—	29	31	—	—	9	—	16	—	8	—	1	16	1	24	8	14	
12 Handling cargo	1	—	1	—	—	—	6	2	—	1	—	—	1	—	1	—	1	2	
23 Fishing	—	—	2	2	—	—	6	—	2	—	—	5	—	—	1	—	1	—	
7 Drills	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
24 Passenger	3	—	3	7	1	2	4	—	1	—	—	—	—	—	1	—	1	—	
36 Other and unknown	2	—	1	2	2	2	10	1	—	—	6	5	3	1	—	1	—	—	
Location of vessel:																			
491 At dock	59	18	30	74	3	3	76	7	28	7	17	2	22	30	—	52	17	37	
240 At anchor	23	3	17	24	4	4	48	3	15	3	15	3	13	17	2	28	11	9	
788 Underway	94	—	95	117	5	14	98	8	58	10	32	4	24	60	16	85	34	22	

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

	Nature of Casualty																
	Collisions; crossing meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total
1 July 1969 to 30 June 1970 Fiscal year 1970																	
Number of casualties.....	197	163	35	409	289	15	21	8	133	317	223	43	23	206	90	2,882	
Number of vessels involved.....	645	428	90	692	416	16	22	8	146	430	240	47	28	334	198	4,063	
Number of inspected vessels involved.....	193	131	23	264	174	11	1	6	40	152	134	26	23	170	158	1,570	
Number of uninspected vessels involved.....	482	297	67	428	242	5	21	2	106	278	106	21	5	164	40	2,493	
PRIMARY CAUSE																	
Personnel fault:																	
Pilots—State.....	15	6	5	17	3					7	17	1					75
Pilots—Federal.....	10	9	3	54	4				1	14	23						122
Licensed officer—documented seaman.....	32	26	13	65	29	2			1	57	39	6	1	8	14	309	
Unlicensed—undocumented persons.....	180	67	23	119	52	1			5	105	28	21	1	6	20	628	
All others.....	16	25	9	22	5	3	1		13	13	16	5	1	3	9	166	
Calculated risk.....	2			7	3					6	3					22	
Restricted maneuvering room.....	8	3		9	5					4	4					31	
Storms—adverse weather.....	8	23		29	23					43	26	19	20	15	99	16	
Unusual currents.....	4	3		21	5					5	2					57	
Sheer, suction, bank cushion.....										3						3	
Depth of water less than expected.....				2	3											64	
Failure of equipment.....	7	11		28	14				7	7	81	37	19	21	3	143	510
Unseaworthy—lack of maintenance.....					2					3	3	1	18	4	49	2	86
Floating debris—submerged object.....	2	2		10	137						5	5			7	3	172
Inadequate tug assistance.....	3	6		8	4						5	3	1				30
Fault on part of other vessel or person.....	368	242	37	293	117	1	1		11	111	17	30	4	5	32	35	1,304
Unknown—insufficient information.....		3		8	10	9	12		75	7	2	31		20	1	42	220
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF CASUALTY																	
Hull and associated parts:																	
Plates and framing—steel.....	2	9		17	58					2	23		17	4	1	8	224
Planks and framing—wood.....		2	1		25				1	1	10		3	23	1	1	84
Tanks.....				3	2	3			8	3		2	1	6	1	1	30
Holds and hatches.....				1		1			7		12		1	3	1	1	25
Superstructure—bulkheads, decks.....	2				1				1		12		1	3	1	1	36
Ladders, gangways, rails and guards.....					6	1				1			2	1	2	3	8
Masts, booms and cargo gear.....					6	10				5			2	1	19	2	34
Rudder and stern tube.....	1	3		6	10					5		2	1	11	3	42	42
Watertight closures.....					1					1		12	1	1	6	1	26
Quarters and living spaces.....									8								9
Navigation and safety:																	
Lookout.....	20	5	4	3	8					18		1	1	3			63
Docks-piers—congested area.....	11	72	3	273	19				2	9	12	4			3	408	
Channels—restricted areas.....	211	43	9	35	54				1	110	100	5		4	13	594	
Buoys—aids to navigation.....					3	33				20	15						76
Excessive speed.....	12	9	6	15	8					3	2	1		1		2	59
Poor visibility.....	11	11	47	15	9					31	18				3	145	
Steering gear.....	6	4		2	4				1	15	7	1			2		42
Radar.....	3	3	12	4						4	3						29
Fathometer—depth of water.....					12					1	1		1		1		21
Engine order telegraph.....						3				4	2						9
Navigation equipment—other.....	1	1	1	1	1					1	1						21
Navigation lights.....	6	3		2	4					8	4	1	1				16
Navigation signals.....	83	11	6	5	2				1								103
Weather (generally).....	8	35	2	61	30					27	27	19	16	6	26	10	398
Currents and tides.....	27	41	1	123	27					54	44	12	1	3	17	2	573
Lifesaving equipment.....										3							5
Firefighting equipment.....										1							27
Miscellaneous:																	
Yard repairs.....				2	1	1	2	1	17	2		4		7	10	1	47
Improper loading or storage.....		2			3	12	1	1	9	9	2	28	4	20	1	7	182
Tug assisting.....	243	89	18	278	84				6	103	22	20	1	4	18	2	904
Anchor equipment.....		27	1	2	8					1	12	12		27	2	2	94
Towing equipment.....	9	6		16	17					19	2	10		1	8	1	101
Mooring equipment.....	6	110	7	13	18		1		3	10	8	2	11	1	13	57	200
Fishing equipment.....	7	1		1	2					7		8		1	1	5	33
Deck equipment—all other.....				2	1				1	1				1	4		11
Engineering:																	
Main propulsion machinery.....	6	12		18	47			14	3	11	9	9	6	1	35	84	264
Boiler parts and accessories.....				3	2	3		3	11	11	4		2	19	133	194	95
Machinery—all other.....													2	4	2	2	5
Tools and working spaces.....																	
Generators and other electrical equipment.....									1								
Wiring, lights, controls.....	1	1		2	1	1	3		32	4	1	1	1	9	4		59
Steward's department:													12				
Galley and steward's department equipment.....																	12

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹—Continued

1 July 1969 to 30 June 1970
Fiscal year 1970

		Nature of casualty																		
		Collisions crossing, meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or boilers, pressure vessel	Explosion and/or fire— structure, equipment, all others	Grounding with damage	Grounding without damage	Founding,	Heavy weather damage	Cargo damage	Material failure— machinery and engi- neering equipment	Material failure— structure and equipment	Casualty not otherwise classified	Total	
TYPE OF VESSEL																				
Inspected vessels:																				
Passenger and ferry—large		5	3	7	9	1	1	2	3	1	5	1	1	1	2	6	30	30	30	
Passenger and ferry—small		4	4	9	9	3	3	16	16	7	5	5	5	5	6	6	52	52	52	
Freight	13	46	6	90	77	7	1	3	15	40	5	13	17	4	106	111	20	642	642	
Cargo barge	12	6	10	10	10	1	1	19	1	2	2	1	2	9	4	4	78	78	78	
Tankships	17	14	1	35	26	2	2	12	10	58	3	5	5	20	27	5	211	211	211	
Tank barge	138	53	9	115	39	2	10	12	12	1	1	1	1	15	7	11	463	463	463	
Public	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	17	17	17
Miscellaneous	6	6	3	9	9	1	1	1	1	5	1	1	1	10	2	2	2	47	47	47
Uninspected vessels:																				
Fishing	48	36	4	9	46	10	48	104	35	45	10	48	48	38	18	18	489	489	489	
Tugs	229	83	23	247	106	1	1	29	101	19	46	1	3	47	7	7	976	976	976	
Foreign	45	54	14	30	13	4	4	27	41	4	4	2	5	1	4	4	248	248	248	
Cargo barge	87	54	9	124	27	10	1	35	8	26	1	2	2	39	54	54	470	470	470	
Miscellaneous	43	70	17	18	50	10	1	21	11	3	22	7	25	4	8	8	310	310	310	
GROSS TONNAGE																				
300 tons or less	293	192	42	240	180	1	20	2	96	211	66	108	20	4	129	47	67	1,718	1,718	1,718
Over 300 to 1000 tons	181	77	22	209	75	2	1	20	81	12	33	4	3	48	2	57	827	827	827	
Over 1000 to 10,000 tons	142	127	17	181	112	8	1	3	95	83	14	12	10	99	88	26	1,039	1,039	1,039	
Over 10,000 tons	29	32	9	62	49	5	3	8	43	79	3	11	11	56	61	16	479	479	479	
LENGTH																				
Less than 100 feet	259	171	27	189	162	1	20	2	88	188	56	99	18	2	107	41	54	1,484	1,484	1,484
100 to less than 300 feet	319	149	45	345	135	3	1	34	158	33	49	6	7	93	9	40	1,466	1,466	1,466	
300 to less than 500 feet	30	58	8	69	43	8	2	15	40	50	6	10	7	54	74	18	492	492	492	
500 feet and over	37	50	10	89	76	4	1	9	44	101	4	13	12	80	74	13	621	621	621	
AGE																				
Less than 10 years	259	167	38	279	131	7	8	38	146	61	52	9	8	74	26	55	1,400	1,400	1,400	
10 to less than 20 years	103	112	28	212	111	4	5	54	127	55	41	9	4	88	22	57	1,121	1,121	1,121	
20 to less than 30 years	101	97	21	189	106	3	4	39	97	84	38	26	14	119	26	86	4,038	4,038	4,038	
30 years and over	52	52	6	62	66	2	3	15	58	40	27	3	2	53	21	17	484	484	484	
LOCATION OF CASUALTY																				
		Number of casualties																		
Inland—Atlantic	20	24	7	71	46	5	6	27	62	77	16	2	1	20	11	18	417			
Inland—Gulf	110	59	12	121	67	3	5	33	76	67	21	14	2	34	12	24	660			
Inland—Pacific	11	14	2	48	34	3	4	1	53	18	25	6	1	33	27	9	314			
Ocean—Atlantic	5	3	6	1	1	1	1	6	10	1	6	5	12	43	20	4	184			
Ocean—Gulf	11	10	2	5	31	2	1	13	19	8	9	0	20	11	16	5	160			
Ocean—Pacific	2	12	2	13	1	1	1	3	8	18	2	2	4	35	6	6	184			
Great Lakes	4	12	52	40	40	1	1	1	23	18	6	1	1	40	17	12	1,188			
Western rivers	26	16	6	85	32	1	2	13	34	6	15	2	1	9	16	1	296			
Ocean—other	1	1	3	4	1	1	1	1	8	6	5	2	1	1	1	1	52			
Foreign waters	8	27	3	22	16	1	2	5	14	21	2	1	1	30	17	7	178			
TIME OF DAY																				
Daylight	77	88	23	222	142	6	15	5	87	140	104	71	28	14	188	129	55	1,359		
Nighttime	108	67	9	141	121	9	4	3	69	186	104	89	19	9	95	51	29	1,060		
Twilight	15	8	3	26	26	2	7	7	21	18	18	18	18	18	18	3	178			
ESTIMATED LOSSES—UNITS OF THOUSANDS																				
Vessel	4,604	2,294	1,187	8,645	5,584	5,474	572	163	18,292	10,336	26	5,797	1,681	38	8,024	8,760	2,807	66,274		
Cargo	738	39	141	437	62	459	14	101	2,699	476	202	891	11,017	19	66	210	15	930	17,860	
Property	327	440	13	6,647	1,367	4	56	530	1,630	1	37	6	37	6	210	15	318	10,620		
VESSELS TOTALLY LOST																				
Inspected	1	6	3	8	3	2	18	5	3	2	1	1	1	5	2	2	2	30	318	
Uninspected	16	6	3	8	39	18	53	45	49	16	16	16	16	53	2	15	3	318		

¹ Statistics concerning recreation and pleasure boating accidents are published in CG 267.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹

Nature of casualty														Total		
Collision, crossing, meeting and overtaking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding without damage	Grounding with damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	
Number of casualties.....	8	4	5	3	8	4	6	1	23	5	30	3	26	3	12	141
Number of persons deceased/injured.....	1/1	1	/6	/1	3/2		1/18	/1		/2	31/8	/2	1/6	38/47		
Inspected vessels.....																
Number of persons deceased/injured.....	7/8	1/2	2/2	1/1	7/4	1/1	1/9	1/4	16/22	4/2	47/..	0/..	22/2	3/..	15/3	140/58
Uninspected vessel.....											47/2	0/..	53/10	3/2	16/9	178/105
Number of persons deceased/injured.....	8/7	2/2	2/8	1/2	7/4	4/3	1/9	4/4	17/40	4/3						
PRIMARY CAUSE																
Personnel fault:																
Pilots—State.....																1
Pilots—Federal.....																
Licensed officer—documented seaman.....	1	1	1	1	2	3	1	1	3	2		8	1	1	2	27
Unlicensed—undocumented persons.....	3	1					1		5							8
All others.....	2															
Calculated risk:																
Restricted maneuvering room.....																
Storms—adverse weather.....																
Unusual currents.....																
Sheer, suction, bank cushion.....																
Depth of water less than expected.....																
Failure of equipment.....																
Unseaworthy—lack of maintenance.....																
Floating debris—submerged object.....																
Inadequate tire assistance.....																
Fault on part of other vessel or person.....	2	2	3		1	1	4		7		12		2		1	0
Unknown—insufficient information.....															3	30
TYPE OF VESSEL INVOLVED																
Inspected vessels:																
Fisher and ferry—large.....																
Fisher and ferry—small.....	1		/6												3	1/10
Cruise ship.....			/1													30/14
Cargo barge.....																
Tankships.....																
Tank barges.....																
Public.....																
Miscellaneous.....	/1	1/..														2/3
Uninspected vessels:																
Fishing.....	3/1		2	2/..	1/	6		1/2	7/6	3/1	28/..	9/..	12/2	9/..	77/13	
Tugs.....		2			1/			1/3	2/1	8/..	2/..	6/3	2/..	22/10		
Foreign.....	2/							1/	2/2		1/..		1/..		8/2	
Miscellaneous.....	2/5	1/..	/2			1/4		4/4	5/13	1/1	9/..	7/..	8/..		33/33	
PARTICULARS OF PERSON DECEASED/INJURED																
Papers of deceased/injured:																
Licensed by Coast Guard.....	/1	2	/1			1/1		1/10	1/..	3/..	8/2		3/1	17/18		
Documented by Coast Guard.....						1/1		2/5		1/1	22/4		2/3	28/16		
No license or document.....	6/7	2/1	2/6	1/1	7/3	1/2	1/9	4/4	12/24	9/3	43/1	9/..	22/4	8/..	11/5	127/70
Other—unknown—foreign.....	2/					1/..		2/1					1/..		6/1	
Status or capacity on vessel:																
Passenger.....	2/1		6		2/1	1/	1/			1/	3/..		1/..		2	7/12
Longshoreman—harbor worker.....																2/2
Crewmember.....	6/6	2/1	2/2	1/2	5/3	3/3	5/	14/33	3/2	42/2	9/..	46/10	3/2	15/7	161/78	
Other.....													6/..	1/..	18/13	
Activity engaged in:																
Off duty.....			1/			1/1	/3	3/2	5/4	14/1			1/..		12/12	
Deck department duties.....	2/2	1/1	2/2	1/1	3/2	2/..	/5	2/15	2/2	1/1			12/3	8/6	49/40	
Engine department duties.....													1/1	1/..	4/8	
Stewards department duties.....															2/1	3/4
Handling cargo.....																4/2
Fishing.....	3/	1/..				1/			4/1	18/..	9/..	6/..	8/..	4/..	49/1	
Drills.....																1/..
Passenger.....	2/1		/6		2/1		1		1/1							4/12
Other and unknown.....	1/4				/1		3	1/..	2/14	2/..	12/..		33/3	1/..	53/26	
Location of vessel:																
At dock.....								4/3	1/6	11/22			6/2	..2	1/1	22/36
At anchor.....								1/3	4/4	2/7	/1		6/3		19/19	
Underway.....	8/7	/1	2/	8	1/2	7/4			4/11	4/2	45/2	0/..	41/6	8/..	15/8	137/50
PART OF BODY INVOLVED																
Head and upper limbs.....	/4		/2			/1		/2	3/..	2/12	/1		4/4		0/26	
Back and lower limbs.....	/1	/2	/1	/1	/1	/1		1/2	/1	5/..	/1		1/1		1/22	
Multiple injuries (internal and external).....	/2		/6	1/1	/2	/3	1/5	1/3	6/23	/1	/2		2/3	..2	1/3	12/67
Death—heart.....																2/..
Death—drowning.....	7/	1/..	2/..			6/..	2/..		2/..	0/..	38/..	7/..	38/..	12/..	118/..	
Death—other.....	1/..	1/..				6/..	2/..		6/..	1/..	9/..	2/..	8/..	3/..	36/..	

¹ Statistics concerning recreational boating accidents are published in CG-887.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹ (Not Involving a Vessel Casualty)

	CAUSE OF DEATH	Nature of death																					
		Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Smashed, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises and punctures	Altercations and misconduct	Unknown or insufficient information
Total 420																							
11 Intoxication																							
178 Physical deficiency or handicap	354				2		1	1	6	1	2								3			4	
59 Unsafe movement or posture						1		2	50	4	1	1	1										
36 Psychological—immaturity, insanity	2	3	8																				
47 Unsafe practice							3																
2 Violation of law or regulation																							
45 Human errors	1		1					1	25	4	5	1							2			1	
5 Decks—slippery or cluttered								1	3	1	1												
4 Weather conditions									2														
1 Poor maintenance or housekeeping																							
0 Inadequate lighting																							
6 Inadequate rails or guards																							
11 Failure of equipment																							
0 Inadequate supervision																							
3 Inadequate life preservers																							
2 Inadequate tools or equipment																							
0 Inadequate protective equipment																							
5 Improper use of tools or equipment																							
5 Miscellaneous causes																						5	
TYPES OF VESSELS INVOLVED																							
Inspected vessels:																							
39 Passenger and ferry—large	22		3							10		1							1	1		1	
17 Passenger and ferry—small	10	1	1						3	1	1	1						3	2	1	3		
134 Freight ships and barges	70		2		3	2	2	5	20	13	6	1	1										
36 Tankships and barges	25	1							9														
2 Public	1								1														
10 Miscellaneous	5	1		1		1		6		2		1	1										
Uninspected vessels:																							
62 Fishing	13								42		2	1						1	1		2		
54 Tugs	8							1	2	37	2	2					2	1					
23 Foreign	1	1				1		1	5	6	6												
34 Miscellaneous	2	1	1					1	20	1	4	1					1						
TIME OF DAY																							
233 Daytime	89	2	5		3	3	1	6	79	9	15	5	1	1	1	2	3	1	5	1	3		
154 Nighttime	55	1	3		1	3	1	3	61	10	5	2					1						
33 Twilight	13		1						13	1	1	1						1	1				
PARTICULARS OF DECEASED																							
Papers of deceased:																							
43 Licensed by Coast Guard	32		1					1	5		1	2	2										
123 Documented by Coast Guard	68	2	4		3	2	2	2	30	1	2	2	1					1	1	1			
228 No license or document	56		3		1		2	5	113	10	13	4	1	1	2	3	1	6					
26 Other—unknown—foreign	1	1	1			1		1	5	9	5												
Status or capacity on vessel:																							
52 Passenger	36		2						12		1												
32 Longshoreman—harbor worker	2		6		1	3	4	2	5	10	6							5		1			
275 Crewmember	111	2	6		3	3	4	6	104	7	11	4	1	1	2	3	1	2	2	6	3		
61 Other	8	1	1					1	32	3	4	3						1	1	1	3		
Activity engaged in:																							
125 Off duty	63	1	6		1	3	1	6	38		2								2	1		7	
101 Deck department duties	21	1			1				52	6	8	1											
29 Engine department duties	17	1							3	1	1	1											
12 Stewards department duties	9								3														
19 Handling cargo									1	1	7								6				
48 Fishing	15								20		3								1				
2 Drills	1								1														
44 Passenger	28		2						13		2	4											
40 Other and unknown	3	1			1			2	13	8	2	4							1				
Location of vessel:																							
173 At dock	42	2	4		2	3	2	6	59	19	12	3	1					2	3	7	3	1	4
14 At anchor	2										2	2						2					
233 Underway	113	1	5					2	3	89	1	7	3		1			1					5
PART OF BODY INVOLVED																							
31 Head and upper limbs					1			3	2	1	6		3	10		1	1			2	1		
30 Back and lower limbs									2	3			11	11	2								
39 Multiple injuries (internal and external)	142	1	1							3			1					2	2		5		
148 Death—heart										148	3												
162 Death—drowning	1	4				1		1		2	3		5					1		1		3	
40 Death—disease, other	14	1	3															1		2			

¹Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

	Total	Nature of injury																			
		Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oversettion, sprains and strains	Cuts, lacerations, bruises and punctures	Alterations and misconduct	Unknown or insufficient information	
1923 CAUSE OF INJURY																					
55	Intoxication	7	2	3	16	2				3		2			1		2	5	3	3	
72	Physical deficiency or handicap	5	2	8	2				3			43		1			4	2	5		
561	Unsafe movement or posture	81	18	41	79	2	4	30	1	46	1	6	7	12	1	173	38	1	10		
66	Psychological—immaturity, insanity	1	1	3	1				1			2				3	13	41	1		
428	Unsafe practice	32	3	8	51	1	4	93	3	18	9	30	5	17	40	1	49	48	14		
25	Violation of law or regulation															1		22			
278	Human errors	24	6	20	31	2	2	38		25	3	18	1	7	35	1	18	36	11		
131	Decks—slippery or cluttered	16	2	51	13			2		10	1	2	1	2	26	3	2	2			
122	Weather conditions	4		13	20	1			19		13	3		1	10	10	10	16			
15	Poor maintenance or housekeeping	2		1	3			6								2	1				
2	Inadequate lighting															1	1				
5	Inadequate rails or guards																				
81	Failure of equipment	3		1	7		1	42		1		1			1	6	8		2		
12	Inadequate supervision			1	1		4					2		1	1		2				
0	Inadequate life preservers																2	3			
8	Inadequate tools or equipment																1				
6	Inadequate protective equipment																20		2		
60	Improper use of tools or equipment	3			4				10		1	10	4		2	1					
8	Miscellaneous causes				2			1				1		1	1		2				
TYPES OF VESSELS INVOLVED																					
126	Inspected vessels:	9	1	23	17			15		9		3	1	1	6		23	11	3	4	
19	Passenger and ferry—large	1	1	2	4			2									5	1			
1,487	Passenger and ferry—small	146	27	103	183	4	10	191	3	98	19	60	4	18	74	10	290	148	61	40	
122	Freight ships and barges	14	2	6	16	1	1	9	1	9	3	9	1	3	2	17	19	7	2		
1	Tankships and barges																				
32	Public																				
32	Miscellaneous	1		1	8			7		1		1	2		2	1	1	3	2	2	
39	Uninspected vessels:																				
55	Fishing			1	3			12		1	1	4		0	7	3	1	10	3		
40	Tugs	2	2	4	2			9		5		5	4		4		3				
2	Foreign																				
39	Miscellaneous	3		4	5	1		5		1		2	1	6		3	4	3	1		
TIME OF DAY																					
1,354	Daytime	127	17	90	150	4	5	205	2	79	19	57	6	25	76	12	242	157	40	41	
477	Nighttime	42	12	46	78	4	5	40	2	39	3	17	1	9	24	2	73	40	33	7	
92	Twilight	0	2	6	13		1	5		4	1	5	3	2	2	2	24	6	5	4	
PARTICULARS OF PERSON INJURED																					
190	Papers of person injured:																				
1,547	Licensed by Coast Guard	20	6	11	25			1	21		11	4	16	1	2	8	2	33	29	7	2
176	Documented by Coast Guard	182	24	117	199	6	8	108	4	102	19	53	5	20	76	11	293	152	65	46	
1	No license or document	6	1	14	17	2	2	34		0		10	1	15	16	3	13	22	5	4	
1,847	Other—unknown—foreign																				
42	Status or capacity on vessel:																				
27	Passenger	1	6	6				2		1		1	1	3	1	1	3	1	1		
7	Longshoreman—harbor worker							5		1									1		
1,847	Crewmember	177	30	136	230	7	9	233	4	120	23	71	7	35	94	15	337	194	75	50	
42	Other	1		5	1	2	10					1	5		1	1	6	2	1		
296	Activity engaged in:																				
766	Off duty	27	16	25	56	3	1	5	2	10		2	1	13	3	30	38	48	7		
499	Deck department duties	54	7	56	112	5	5	166		54	5	9	1	24	31	7	157	66	1	6	
255	Engine department duties	59	5	27	44	3	3	56	2	30	17	61	4	2	20	1	107	58	11	35	
5	Stewards department duties	35	2	27	17			12		17	9	2		24	2	42	25	6	35		
45	Handling cargo							3		1									1		
6	Fishing			4	1			12		1			9	6	2	1		9			
22	Drills	2		2	2													1			
30	Passenger	1	1	3	6		1	1		1		1	1	1	1	1	3	1	3		
30	Other and unknown	1		3	2	6		1		1		7		4	1	1	3	2	1		
866	Location of vessel:	72	29	44	103	7	7	128	2	46	7	36	6	21	52	2	152	74	58	25	
16	At dock	1	3	3	3			6		76	10	48	1	15	50	14	187	127	20	27	
1,041	At anchor																				
	Underway	105	2	95	135	1	4	121	2												

See footnote at end of table.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹
Continued
(Not Involving a Vessel Casualty)

Total	1 July 1969 to 30 June 1970 Fiscal year 1970												Nature of injuries					
	Slips and falls - ladders	Slips and falls - gangways	Slips and falls - on deck	Slips and falls - other	Falls from vessel - into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and aspiration	Struck against, crushed or bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Cut, lacerations, bruises and punctures	Alterations and misconduct	Unknown or insufficient information	
Part of body injured:																		
97 Head and neck.....	5	—	5	24	—	—	22	—	14	—	—	—	1	—	10	14	2	
69 Eye and face.....	1	—	16	4	—	1	37	—	1	—	—	—	—	—	3	—	4	
133 Arm and shoulder.....	14	2	17	13	1	2	29	—	11	—	—	—	—	—	28	25	3	
350 Hand.....	10	2	6	21	33	1	30	1	35	1	3	3	6	1	28	26	1	
231 Leg and hip.....	23	9	12	18	1	2	62	—	16	—	14	7	4	2	91	77	5	
287 Foot.....	23	9	2	33	30	1	5	—	11	1	1	1	1	—	129	83	5	
261 Back.....	31	2	—	—	—	—	7	1	1	—	6	—	—	—	—	—	—	
56 Body - external.....	11	1	5	7	—	—	5	1	1	—	—	—	—	—	8	4	5	
101 Body - internal.....	15	4	10	23	1	1	5	1	8	—	—	—	—	—	6	6	4	
21 Hernia.....	1	—	2	2	—	—	—	—	—	—	—	—	1	3	2	12	16	4
293 Multiple body injuries.....	41	5	20	62	—	4	37	—	10	23	—	4	6	10	13	22	32	4
24 All other injuries.....	3	—	1	5	2	1	1	1	1	2	1	—	1	—	—	1	4	—
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF INJURY																		
597 Human element.....	36	7	54	63	1	2	52	1	26	13	19	1	9	15	4	111	89	80
70 Decks - slippery or cluttered.....	7	2	19	18	1	1	4	—	4	—	2	—	1	1	12	5	2	—
49 Weather conditions.....	2	2	8	3	1	—	3	—	4	—	—	—	10	1	1	2	1	—
16 Poor maintenance or housekeeping.....	3	—	2	—	—	—	—	—	2	—	—	—	—	—	1	2	2	1
16 Inadequate lighting.....	1	—	—	4	3	—	3	—	3	—	—	—	1	—	2	2	1	—
17 Inadequate rails or guards.....	3	1	—	3	1	1	2	—	—	—	—	—	1	1	1	4	—	—
8 Failure of equipment.....	—	—	—	—	—	—	3	—	1	—	—	—	—	2	1	1	—	—
57 Inadequate supervision.....	1	—	2	6	—	—	—	21	1	—	5	4	2	1	11	11	12	—
19 Inadequate tools or equipment.....	—	—	—	5	—	—	3	—	—	—	1	1	1	7	1	1	1	—
32 Inadequate protective equipment.....	1	—	1	5	—	—	—	12	—	2	1	3	—	—	1	6	22	3
124 Improper use of tools or equipment.....	2	—	1	13	—	—	36	—	9	7	9	2	10	—	10	21	7	—
113 Hull structure.....	8	—	22	31	—	—	6	—	7	7	1	2	5	6	8	5	1	2
51 Holds, hatches, tanks.....	3	—	1	16	4	—	3	1	2	—	—	—	1	3	8	16	7	—
168 Ladders, gangways, stairs.....	91	12	3	13	1	2	6	—	10	—	—	—	—	—	23	4	2	—
66 Masts, booms, cargo gear.....	2	—	1	—	—	—	17	—	3	—	—	—	—	—	12	1	1	—
27 Watertight closures.....	—	—	1	7	—	—	2	—	2	—	—	—	—	—	4	2	9	—
58 Living spaces.....	2	—	8	13	—	—	3	1	8	—	1	—	1	4	2	1	6	—
17 Fishing equipment.....	—	—	—	—	—	—	4	—	—	—	—	5	4	1	—	—	—	—
2 Navigational equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	2	—
14 Lifesaving equipment.....	1	—	—	5	—	—	1	—	—	—	—	—	—	—	—	—	—	—
3 Firefighting equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0 Communications equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0 Yard repairs.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23 Improper loading, stowage and ventilation.....	2	—	4	4	—	—	1	—	2	—	—	—	4	3	2	5	2	—
12 Ground tackle.....	—	—	—	—	—	—	2	—	—	—	—	—	—	—	2	2	2	—
4 Tugs and towing equipment.....	—	—	1	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2
87 Mooring equipment.....	—	—	—	3	—	—	46	—	1	—	—	10	3	1	13	—	—	—
4 Miscellaneous deck department equipment.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 Main propulsion machinery.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39 Boiler parts and accessories.....	1	—	2	—	—	—	4	—	1	1	1	1	3	—	5	4	1	—
42 Auxiliary machinery.....	6	—	3	8	—	—	2	—	6	1	4	—	—	—	8	4	—	—
6 Electrical equipment.....	—	—	—	—	—	—	1	—	1	2	—	—	—	—	—	—	—	—
66 Galley equipment.....	2	—	7	8	—	—	3	—	1	7	—	4	1	10	2	—	19	—

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-367.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

1 July 1968, to 30 June 1969
Fiscal year 1969

	Nature of casualty																	Total	
	Collisions; crossings, meeting, and overtaking	Collisions while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—cargo	Explosions and/or fires—vessel's fuel	Explosion and/or fire—hull, pressure vessel	Explosion and/or fire—structure, equipment—all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and hoardings	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified		
Number of casualties.....	233	194	21	389	272	30	27	13	147	352	215	250	54	4	149	273	61	2,664	
Number of vessels involved.....	746	494	57	649	390	36	30	14	152	454	226	305	46	4	157	274	127	4,183	
Number of inspected vessels involved.....	244	181	23	277	178	24	4	12	48	143	138	33	46	4	118	233	48	1,754	
Number uninspected vessels involved.....	502	313	34	372	212	12	26	2	104	311	98	272	12	4	39	41	79	2,429	
PRIMARY CAUSE																			
Personnel fault:																			
Pilots—State.....	13	13	1	16	7					9	14	1						1	74
Pilots—Federal.....	3	6		7	5					5	9								36
Licensed officer—documented seaman.....	58	22	20	69	27	3	2	8	9	68	32								365
Unlicensed—undocumented persons.....	140	50	13	87	44	4	4	2	8	112	41	30							541
All others.....	33	20	2	18	8	9	2		14	11	18	12							177
Calculated risk.....	10	29		31	17					17	16	3							124
Restricted maneuvering room.....	6	7		12	1					3	3								32
Storms—adverse weather.....	3	23		35	18					32	18	44	46	2	21	6	5	253	
Unusual currents.....	4	2		27	2					3	2	5							46
Sheer, suction, bank cushion.....	27	6		7	2					5	4	1							57
Depth of water less than expected.....				10	13					23	28	2							76
Failure of equipment.....	12	21		42	20	3	16	6	62	65	17	37	9	83	210	7	610		
Unseaworthy—lack of maintenance.....				2			2		8	5		84	1	13	17	1		133	
Floating debris—submerged object.....				2	6	114			3	6		11		7	1	1		151	
Inadequate tug assistance.....	3	6		39	6					2	5		1						63
Fault on part of other vessel or person.....	430	284	21	241	102	4	2		7	92	26	53	1	5	2	63	1,333		
Unknown—insufficient information.....	4	1		2	4	13	2		41	6	3	8		5	4	19		112	
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF CASUALTY																			
Hull and associated parts:																			
Plates and framing—steel.....	12	19		8	40					3	23	1	37	5	32		9	199	
Planks and framing—wood.....	3	4		2	27					3	18	51	2	8	1	1		119	
Tanks.....		1		2	6	4	1		2	4	7	1	1	19	5			53	
Holds and hatches.....	1			1	5						6			2				16	
Superstructure—bulkheads, decks.....	1	3		3	6	1			11	3	14	8		10				32	
Ladders, gangways, rails and guards.....				1	1						6		3		2			6	
Masts, booms and cargo gear.....	2			1	2						6		23		2			44	
Rudder and stern tube.....				2	9					11	1	7	1	8	6			26	
Watertight closures.....											26								15
Quarters and living spaces.....							1		15			1							
Navigation and safety:																			
Lookout.....	73	23	8	7	18					13								142	
Docks—piers—congested area.....	14	64	1	230	14					2	9	16	2		2			354	
Channels—restricted areas.....	161	33	5	37	32						90	86	6		1			457	
Buoys—aids to navigation.....	1			1	13						17	15						47	
Excessive speed.....	61	29	21	25	8						11	3	5	1	1			185	
Poor visibility.....	11	12	10	6	15						29	16	2					102	
Steering gear.....	17	11		13	7						28	9	1					39	
Radar.....	3	4	23	1	1						17	8	2					60	
Fathometer—depth of water.....					14						19	5	1					39	
Engine order telegraph.....	1	10		10	2						2	2						28	
Navigation equipment—other.....	72	11	2	10	11					3	87	26	4						227
Navigation lights.....	26	13		1	6							1						48	
Navigation signals.....	157	5	15	5	14						46	36	29	2					197
Weather (generally).....	16	28		76	30						36	36	14	1	3	1	6	273	
Currents and tides.....	41	25		148	22						1	8	1	21	2	47	376		
Lifesaving equipment.....																		63	
Firefighting equipment.....																		6	
miscellaneous:																			
Yard repairs.....	3		5		2		8		13	4	1	5	1	2	9	2	2	59	
Improper loading or stowage.....	8		5		4	5	27	5	1	9	4	7	67	17	2	4	134		
Tug assisting.....	249	117	12	216	64	4			4	78	22	26	1		13			806	
Anchor equipment.....					5	7					32	14	3	6	35	4		132	
Towing equipment.....	12	18		31	16						27	7	25	4	2	12		184	
Mooring equipment.....		40		32	15						10	6	18	5	6	1	49	180	
Fishing equipment.....	19	2		1	7						9	2	6	1	2	3	8	52	
Deck equipment—all other.....		7		7	8					3	1		5	5	6	1		43	
Engineering:																			
Main propulsion machinery.....	11	32		31	84		19	22	41	38	8	33	1	11	140	6	455		
Boiler parts and accessories.....		3		1	4	1	8	22	25	5	2	2		2	212		287		
Machinery—all other.....				1	10		1		1	3	8	28		5	1		50		
Tools and working spaces.....										9		7		1	5			22	
Generators and other electrical equipment.....							3	3	26	4	2	2	1	1	54	1	97		
Wiring, lights, controls.....		3		2	2		3	3	38	4	1	1	3	1	6	1		60	
Steward's department:																			
Galley and steward's department equipment.....								3		17								20	

See footnotes at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹ Continued

	Nature of casualty																		
	Collisions; crossings, meeting, and overtaking	Collisions, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion; and/or fire—cargo	Explosion; and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure, equipment—all others	Grounding with damage	Grounding without damage	Foundering; capsizings, and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total	
TYPE OF VESSEL																			
Inspected vessels:																			
Passenger and ferry—large	3	4		12	4	13	2	9	3	2	3	1	1	5	1	1	38		
Passenger and ferry—small	13	7	6	4	13			12	22	47	96	11	20	4	83	178	127		
Freight	31	88	5	107	78	11			1	1	2	4	2	1	1	1	126		
Cargo barge	14	3	1	12	7		1	1	1	2	4	2	2	2	2	6	52		
Tankships	13	17	5	27	33	2		7	23	24	2	8	2	2	22	45	234		
Tank barge	166	55	5	106	35	9		2	47	8	11	2	2	2	1	1	15	464	
Public					1	1		1				2	2	2	2	1	7		
Miscellaneous	4	7	1	8	7	2	1	3	2	1	1	1	1	3	1	1	42		
Uninspected vessels:																			
Fishing	60	35	2	9	55		12	1	47	133	39	108	5	13	25	6	550		
Tugs	252	80	13	242	90	5	2	5	22	100	24	81	4	7	7	16	347		
Cargo barge	87	46	6	84	20	5			4	32	10	40	1	4	4	4	38		
Foreign	43	70	6	18	16	5	1	1	4	20	18	2	2	1	1	1	212		
Miscellaneous	60	82	7	19	31		8		27	26	7	41	2	11	8	6	335		
GROSS TONNAGE																			
300 tons or less	344	179	25	236	175	5	28	1	102	249	78	238	10	27	31	30	1,763		
Over 300 to 1,000 tons	219	95	12	174	55	9			13	74	12	52	2	11	2	54	564		
Over 1,000 to 10,000 tons	158	157	11	191	113	17	2	12	24	92	98	13	29	2	166	35	1,194		
Over 10,000 tons	85	63	9	48	47	5		1	13	39	50	2	2	43	70	8	447		
LENGTH																			
Less than 100 feet	303	154	19	207	164	3	28	1	91	233	68	210	7	27	32	20	1,567		
100 to less than 300 feet	368	171	22	275	101	16	1	1	26	140	34	86	7	13	13	79	1,352		
300 to less than 500 feet	48	88	5	86	68	12	1	11	21	30	62	6	3	64	141	32	61		
500 feet and over	27	81	11	81	57	5		2	14	51	72	3	21	1	53	88	6	573	
AGE																			
Less than 10 years	335	181	24	215	123	9	9		37	124	55	82	13	28	36	54	1,325		
10 to less than 20 years	227	138	16	201	89	10	11		39	141	51	83	11	29	20	33	1,000		
20 to less than 30 years	140	127	9	155	127	14	5	14	52	120	99	72	32	4	92	195	36	793	
30 years and over	44	48	8	78	51	3	5		24	69	31	68	2	17	22	22	10	450	
LOCATION OF CASUALTY																			
NUMBER OF CASUALTIES																			
Inland—Atlantic	43	47	3	81	47	11	6	1	33	82	85	28	1	13	18	2	501		
Inland—Gulf	91	46	7	114	61	5	6	1	30	53	34	46	2	8	12	9	526		
Inland—Pacific	10	33	1	37	43	2	7	4	24	13	28	37	4	1	15	7	320		
Ocean—Atlantic	6		1		12	2	1		13	23	1	25	14	2	17	37	2	116	
Ocean—Gulf	14	3	4	26	2	1		2	21	29	5	40	5	6	16	16	75	382	
Ocean—Pacific	11	3	4	3	24	1	3	3	15	26	3	31	24	1	43	3	102	382	
Great Lakes	4	14	68	23				3	21	17	4	1	1	11	15	2	183		
Western rivers	42	11	2	55	16	3	1	1	4	29	6	38	6	6	8	19	235		
Ocean—other	3	4	1	3	3			1	1	2	3		3	5	17	46		46	
Foreign waters	9	33	2	24	17	6	1	2	4	14	33	1		22	18	15	201		
TIME OF DAY																			
Daylight	85	126	10	214	151	19	16	5	70	170	124	139	26	1	100	167	38	1,461	
Nighttime	141	80	8	156	104	9	10	8	57	167	80	98	25	2	45	86	20	1,076	
Twilight	7	8	3	19	17	2	1		20	15	11	13	3	1	4	20	2	147	
ESTIMATED LOSSES—UNITS OF THOUSANDS																			
Vessel	7,422	2,088	3,222	4,107	3,314	1,470	520	593	11,260	8,882	6	11,414	796	1	3,307	4,150	5,715	68,267	
Cargo	1,072	51	6	233	91	1,488	17	4	52	310	0	1,019	540	14	121	43	6,128	10,269	
Property	2,046	114		4,099	239		14	1	212	89	3	226		19	24	240	7,026		
VESSELS TOTALLY LOST																			
Inspected	6		1	3	4	2	2	2	3	2	2	8	1		7	1	3	31	
Uninspected	15	11	1	4	30	1	16	2	56	67	126	2		1	1	3	342		

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹

	Nature of casualty														Total		
	Collision, crossing, meeting, and over-taking	Collision, while anchored, docking, or undocking	Collision, fog	Collision with piers and bridges	Collision, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure and equipment	Grounding without damage—all others	Grounding with damage	Founding, capsizing, laps, and flooding	Heavy weather damage	Cargo damage	Material failure structure and equipment	Material failure machinery and engi- neering equipment	Casualty not otherwise classified
1 July 1968, to 30 June 1969																	
Fiscal year 1969																	
Number of casualties.....	20	8	8	2	8	9	8	4	14	8	1	86	2	17	4	6	147
Number of deceased/injured—inspected vessels.....	21/47	..1	..8	..7	6/9	..1	1/4	4/2	..12	..	3/4	..3	1/4	36/93
Number of deceased/injured—uninspected vessels.....	62/10	6/6	1/1	..2	3/3	..10	1/8	..	17/18	8/1	..1	66/9	2/..	18/12	1/1	4/..	181/80
Number of persons deceased/injured.....	83/57	6/7	1/9	..2	3/10	6/19	1/9	1/4	21/18	8/2	..1	66/9	2/2	16/16	1/4	5/4	217/173
PRIMARY CAUSE																	
Number of casualties																	
Personnel fault:																	
Pilots—State.....	3																3
Pilots—Federal.....	3	2	5			1	1	2	1	1	1	4		1			21
Licensed officer—documented seaman.....	5	1		1	1	3	1	4	1		2		2			27	
Unlicensed—undocumented persons.....	6	1										3	1			22	
All others.....	1	1									2					4	
Calculated risk.....																	
Restricted maneuvering room.....																	
Storms—adverse weather.....																	
Unusual currents.....																	
Sheer, suction, bank cushion.....																	
Depth of water less than expected.....																	
Failure of equipment.....																	
Unseaworthy—lack of maintenance.....																	
Floating debris—submerged object.....																	
Inadequate tug assistance.....																	
Fault on part of other vessel or person.....																	
Unknown—insufficient information.....																	
DEATH/INJURED BY VESSEL TYPE																	
Number of persons deceased/injured																	
Inspected vessels:																	
Passenger and ferry—large.....	/1		..3		..6		..1					..2		1/..			1/13
Passenger and ferry—small.....	21/46		..4		..1			1/4	..1				1/4	..1	1/4	24/65	
Freight.....																	
Cargo barge.....																	
Tankships.....																	
Tank barges.....																	
Miscellaneous.....																	
Uninspected vessels:																	
Fishing.....	2/..	..3/	..1		..1	2/1	..5	1/5	3/2	6/1	33/3	2/..	2/1	4/..		54/16	
Tugs.....	3/3	..1				..1	..5	..1	2/2	..1	8/2			4/..		13/17	
Foreign.....	20/20	6/6	1/2	..2	3/0	4/15	1/7	..1	19/17	5/1	..1	52/8	2/1	12/12	4/..	32/37	
Miscellaneous.....	31/4	6/2	1/1	..1	1/1		..2	..1	11/11		..1	26/4		3/4	1/1	82/30	
PARTICULARS OF PERSON DECEASED/INJURED																	
Number of persons deceased/injured																	
Papers of deceased/injured:																	
Licensed by Coast Guard.....	5/8	..1	..2			1/1	..2	1/1	1/..		5/..			2/..	1,1	14/18	
Documented by Coast Guard.....	16/25		..5			..1	1/3		..2		8/1		1/4	..1	..2	26/46	
No license or document.....	20/20	6/6	1/2	..2	3/0	4/15	1/7	..1	19/17	5/1	..1	52/8	2/1	12/12	4/..	129/102	
Other—unknown—foreign.....	42/4								1/1		1/..		3/..	1,1	..1	48/7	
Status or capacity on vessel:																	
Passenger.....	10/15	3/1	1/			1/7		..3			7/..			2/..		24/27	
Longshoreman—harbor worker.....	1/..							2/10	..2/					1/7		6/23	
Crewmember.....	70/42	2/6	..9	..1	2/3	3/8	1/6	1/3	7/6	6/2	..1	68/9	2/1	11/9	1/4	168/114	
Other and unknown.....	3/..							1/1		1/2/7				2/..		19/9	
Activity engaged in:																	
Off duty.....		..3	..1													10/10	
Deck department duties.....	21/17	1/2	1/5	..1	2/1	3/3	..2	..1	14/9	1/2		16/6	..2/..	8/5	..1	3/2	72/87
Engine department duties.....	20/11		..1						1/3	1/..				1/..	1/2		27/19
Stewards department duties.....	10/11		..2						1/..								11/17
Handling cargo.....																	2/10
Fishing.....		..1															33/2
Drills.....																	
Passenger.....	10/18	8/1						1/7		..3		8/..		2/..			19/27
Other and unknown.....	22/..	2/1						2/10	1/4	4/8	1/..	..1	7/2	3/4	..1		43/31
Location of vessel:																	
At dock.....																	
At anchor.....																	
Underway.....	83/57	4/5	1/0	..2	3/10	5/5	..8	1/1	8/2	6/2	..1	66/9	2/2	6/2	..2	4/4	185/116
PART OF BODY INVOLVED																	
Head and upper limbs.....	..9	..1	..2	..1	..3	..1								8/3		..1	3/25
Back and lower limbs.....	..1	..4	..2	..1	..1	..2								1/2			1/21
Multiple injuries (internal and external).....	14/47	..2	..5		..6	1/16	..8	..3	5/16	..2	..1	..3	..1	8/11	..4	1/2	24/127
Death—heart.....																	1/..
Death—drowning.....	19/..	1/..	1/..		2/..	4/..	1/..	1/..	7/..	5/..		42/..	1/..	5/..			87/..
Death—other.....	50/..	6/..			1/..	1/..			1/..	9/..		24/..	1/..	4/..			101/..

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

		Nature of death																					
		Natural causes	Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, run over by machinery and tools	Hurts and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overturbation, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alterations and misadventure	Unknown or insufficient information
Total	428																						
		CAUSE OF DEATH																					
15	Intoxication																						
104	Physical deficiency or handicap	88				1	1			12		1	2										
23	Unsafe movement or posture		1	20						2	18	1	1										
52	Psychological—immaturity, insanity								1	31													
16	Unsafe practice					1	7		3	3	1	1											
5	Violation of law or regulation		4			3	1	2	52	5	7	1	1					1	3				
76	Human errors								6	7		1											
6	Decks—slippery or cluttered								2														
9	Weather conditions								5	1	2												
0	Poor maintenance or housekeeping								1		5												
2	Inadequate lighting								2														
7	Inadequate rails or guards								1	2	1	4											
4	Failure of equipment								1		5												
1	Inadequate supervision								2		1	2											
5	Inadequate life preservers								1		5												
0	Inadequate tools or equipment								2														
2	Inadequate protective equipment								1	2	1	5											
4	Improper use of tools or equipment								1														
5	Miscellaneous causes																						
	TYPES OF VESSELS INVOLVED																						
	Inspected vessels:																						
43	Passenger and ferry—large	33	1							7		2											
20	Passenger and ferry—small	14	1	1						3	1												
134	Freight ships and barges	77	13		3	1	1	3	20	6	6	1						1	1	1	1		
42	Tankships and barges	22	3		1			1	13			2											
4	Public	3							1														
10	Miscellaneous	3	1					1	3		1												
	Uninspected vessels:																						
64	Fishing	17	1	1			1		34		3	5						1	1				
45	Tugs	12							30		1	1											
23	Foreign	3	3					1	12	3	1												
43	Miscellaneous	4						4	26	1	6							2					
	TIME OF DAY																						
230	Daytime	110	1	8		3	1	8	64	7	13	8	1	1			1	2	1		1		
170	Nighttime	69	2	10		1	1	2	73	3	5	1					1	1					
28	Twilight	9	2	2					12		2							1					
	PARTICULARS OF DECEASED																						
	Papers of deceased:																						
58	Licensed by Coast Guard	41	4			1			8	2	1	1											
142	Documented by Coast Guard	78	3	10		2	1	4	36	2	3							1	1		1		
213	No license or document	67	2	4	1	1		6	98	6	15	6		1			1	4			1		
15	Other—unknown—foreign	2	2						7	2	2												
	Status capacity on vessel:																						
52	Passenger	39	1	1					10												1		
23	Longshoreman—Harbor Worker	2						1	7	3	5	4						2	1				
305	Crewmember	138	4	19	3	1	4	115	3	7	4	1					2	2	1		1		
48	Other	9			1	1	5	17	4	8	1	1					1						
	Activity engaged in:								14		3	5	5					1	1				
157	Off duty	86	1	14		1	1	4	61	1	6	1	1					1	2				
91	Deck department duties	21	2	1				5	2	2	1												
31	Engine department duties	17	3		1			8															
15	Stewards department duties	8						1															
16	Handling cargo																						
39	Fishing	19	1	1		1																	
1	Drills	1																					
42	Passenger	32	1					5	16	3	4							1			1		
36	Other and unknown	4	1			1																	
	Location of vessel:																						
165	At dock	59	2	4		2	2	7	55	8	13	7	1	1			2	3					
15	At anchor	2						2	9														
248	Underway	127	3	10		2		1	85	2	7	1					1	1		1	1		
	PART OF BODY INVOLVED								6	10		1	1				2						
33	Head and upper limbs	1	3	5		2		2									1						
1	Back and lower limbs								6	2	2	0					1	2					
26	Multiple injuries (internal-external)	1	1	1		1			1														
173	Death—heart	170		13	1	1	1	1	180	1	1	9											
163	Death—drowning	16	1	1		1		1															
32	Death—other																						

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

See footnote at end of table.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹

(Not Involving a Vessel Casualty)

	Nature of injury														
	Slips and falls—ladders		Slips and falls—gangways		Slips and falls—on deck		Slips and falls—other		Falls from vessel—into water		Struck by objects, falling, dropping, or moving		Exposure and asphyxiation		Heavy weather
Total	1 July 1968, to 30 June 1969 Fiscal year 1969														
119	Part of body injured:														
79	Head and neck	19	1	13	13										
	Eye and face	3		1	1										
162	Arm and shoulder	19	3	26	21										
435	Hand	24	2	29	18										
296	Leg and hip	20	10	39	34	2	5	40	1	48	4	8	1		
321	Feet	24	24	35	30			78	1	17	3	15	2		
307	Back	53	4	63	37			10	1	13	2	1	1		
'91	Body—external	12	1	6	4	1	1	11	2	9	10	1			
67	Body—internal	12	4	9	14			3		8	1				
18	Hernia	1						1		1					
251	Multiple body injuries	42	4	32	42	1	6	26	1	6	3	24	2	5	
31	All other injuries	3		1	4	2		1	1	2	1	1	6	4	
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF INJURY															
549	Human element	46	17	55	49	1	5	62		40	10	15	3	34	
154	Decks—slippery or cluttered	21	70	26	2					9	1	1	1	2	
85	Weather conditions	10	3	16	11	2	1	8		5	1	2	1	6	
59	Poor maintenance or housekeeping	7		17	12	1	2			6	2	2	4	4	
29	Inadequate lighting	4		10	4			3	1				1		
26	Inadequate rails or guards	4	1		10		1	2			3	2	2	1	
24	Failure of equipment							7	2	1	1	3		1	
140	Inadequate supervision	5	1	2	23		2	48	1	4	3	16	3	10	
21	Inadequate tools or equipment	1						2	1	1	1	3	1	1	
97	Inadequate protective equipment	9		14	5			33	1	3	2	13	1	4	
147	Improper use of tools or equipment	4	1	6	18		1	35		9	12	12	3	8	
123	Hull structure	5	2	48	22			8		11			3	1	
73	Holds, hatches, tanks	9		4	16		9	5	1	3	1		1	5	
187	Ladders, gangways, stairs	103	26		4	1		10		9			2	7	
109	Mast, booms, cargo gear	3		8	14		1	26		7	3		6	16	
88	Watertight closures			8	12			8	1	9			34		
132	Living spaces	11	1	27	31			8	10	1			11	9	
27	Fishing equipment			1	1			9		1		7	4	3	
36	Navigational equipment	2		9	7			3		7		1	1	4	
25	Lifesaving equipment	1			7			5		1	1	5	2	3	
9	Firefighting equipment							5	2			1		1	
0	Communications equipment							5							
4	Yard repairs			1	1						2				
99	Improper loading, stowage, and ventilation	1		18	16			14	2	13	1	1	4	2	
16	Ground tackle		2					8		3	1	2	1		
18	Tugs and towing equipment			2	3	2		7				2		1	
116	Mooring equipment				6			65		2	2	12	2	14	
66	Miscellaneous deck department equipment	3	3	6				15		3	5	8	1	6	
4	Main propulsion machinery				1					1		6	4	5	
88	Boiler parts and accessories			1	2			10		8	85		2	2	
188	Auxiliary machinery	22	1	18	18		1	21	1	27	9	13	1	15	
27	Electrical equipment				1			6		1	3	7	3	2	
178	Galley equipment	13		21	10			13		16	17	2	1	20	
29	Causes not otherwise classified	3		1	2		2	1		3	1	8	1	8	

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹

July 1, 1967, to June 30, 1968
Fiscal year 1968

	Nature of casualty																		Total
	Collisions; crossing, meeting, and overtaking	Collisions, while anchored, docking, or undocking	Collisions, fog	Collisions with piers and bridges	Collisions, all others	Explosions and/or fires—cargo	Explosions and/or fires—vessel's fuel	Explosions and/or fire—boilers, pressure vessels	Explosions and/or fire—structure, equipment—all others	Grounding with damage	Grounding without damage	Fouling, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified		
Number of casualties.....	227	165	26	383	246	25	32	12	122	300	225	260	164	9	94	245	37	2,570	
Number of vessels involved.....	686	422	62	680	371	31	33	12	125	390	246	325	175	11	101	244	78	4,011	
Number of inspected vessels involved.....	216	156	23	250	158	23	26	9	99	260	155	37	81	8	83	157	29	1,577	
Number uninspected vessels involved.....	470	266	39	400	213	8	3	3	111	288	94			3	18	87	49	2,424	
PRIMARY CAUSE																			
Personnel fault:																			
Pilots—State.....	24	3		1	1	3					8	11						2	52
Pilots—Federal.....	5	4		1	6	2					6	8	1					1	36
Licensed officer—documented seaman.....	69	9	18	16	20	4	2	3	1	72	30	12		2	1	22	2	263	
Unlicensed—undocumented persons.....	149	35	13	24	41	1	4		12	103	47	43		2	1	1	9	485	
All others.....	24	12	3	9	12	11			10	7	11	11	1		8		2	128	
Error in judgement—calculated risk.....	9	41	3	167	42					11	25	6			1		2	307	
Restricted maneuvering room.....	4	8		21	5					4	6	1			1		1	50	
Storms—adverse weather.....	3	45		92	23					42	16	47	166	4	4	2	2	446	
Unusual currents.....	12	7		36	4					1	4	4						70	
Sheer, suction, bank cushion.....	19	3		5	1												2	34	
Depth of water less than expected.....				4	34					27	40	5						110	
Failure of equipment.....	15	22		39	18	3	20	8	56	19	14	33	4	1	62	206	20	540	
Unseaworthy—lack of maintenance.....	1			1	2		3		14	2	3	90	1		11	7	2	135	
Floating debris—submerged object.....				1	11	70				3	2	8						97	
Inadequate tug assistance.....	1	10		15	2					1	4	1						34	
Fault on part of other vessel or person.....	351	222	23	232	90	7	1	1	9	80	2	48	8	2	8	1	26	1,142	
Unknown—insufficient information.....				1	1	2	5	3	22	1	2	17		3	3	2	2	62	
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF CASUALTY																			
Hull and associated parts:																			
Plates and framing—steel.....	53	72	3	60	39					1	46	5	41	28	1	20		18	387
Planks and framing—wood.....	12	11	4	3	23		3	7		3	17	4	64	1			2	140	
Tanks.....					8								3	4		6	1	28	
Holds and hatches.....	6	2		6	2				7	1		12	12			4	1	16	
Superstructure—bulkheads, decks.....				1									2	1		3		51	
Ladders, gangways, rails and guards.....					4								4		12	1	3	3	
Masts, booms, and cargo gear.....					10				1	10		5	1		2	2	3	33	
Rudders and stern tube.....												18	1				1	19	
Watertight closures.....									5									7	
Quarters and living spaces.....					1														
Navigation and safety:																			
Lookout.....	79	18	3	11	14					18	5							145	
Docks—piers—congested area.....	11	50		179	11	3				12	8	5	2					278	
Channels—restricted areas.....	151	43		91	60	3				88	100	7	1					643	
Buoys—aids to navigation.....	1	1		2	29					27	20	2						83	
Excessive speed.....	64	33	26	23	10					7	1	9			2		11	185	
Poor visibility.....	41	8	30	21	8					34	28	2			1	4	2	176	
Steering gear.....	32	9		12	8				1	16	10	6	1		4			107	
Radar.....	22	1	14	2	5					28	22	2						96	
Barometer—depth of water.....					2				1	7	5							16	
Engine order telegraph.....		3		4	1													8	
Navigation equipment—other.....	10	7		6	3		1			37	10	8			1			78	
Navigation lights.....	19	12	2	3	9					2	1							48	
Navigation signals.....	148	2	6	5	5													163	
Weather (generally).....	8	25		48	27					21	15	16	4	1	3	2		170	
Currents and tides.....	31	29	3	111	30					13	22	13	4					258	
Lifesaving equipment.....	5	3		1							3	9		15		1	4	45	
Firefighting equipment.....									2									7	
Miscellaneous:																			
Yard repairs.....									2				2		1	1	1	11	
Improper loading or stowage.....									4			37	25	7	6	2	2	98	
Tug assisting.....	66	36	1	99	36					30	13	26	1	1	3	1	1	314	
Anchor equipment.....	1	5		5	3				1	22	2	5	4		22	4		74	
Towing equipment.....	6	12		12	15					19	10	3	4		2	1	4	88	
Mooring equipment.....	1	12		35	7	1				1	3	8	4	1			33	106	
Fishing equipment.....	3										3	3						10	
Deck equipment—all other.....											1							1	
Engineering:																			
Main propulsion machinery.....	1	22		35	66	21	1	28	40	10		20	3	1	4	153	2	405	
Boiler parts and accessories.....	1	4		2	1	5	10	20	1		19		1	1	88			152	
Machinery—all other.....												10						10	
Tools and working spaces.....							1				6			1	1			28	
Generators and other electrical equipment.....							1	2	1	12	8				1	25		45	
Wiring, lights, controls.....	1						4	5	30	1	1	1		2	6	1		32	
Steward's department:									1	1	11							18	
Galley and steward's department equipment.....																			

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS¹—Continued

		Nature of casualty																	
		Collisions; crossings, meeting, and overtaking	Collisions, while anchored, docking, or undocking	Collisions, fog	Collisions with piers and bridges	Collisions, all others	Explosions and/or fires—cargo	Explosions and/or fires—vessel's fuel	Explosions and/or fires—boilers, pressure vessel	Explosions and/or fires—structure, equipment—all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total
TYPE OF VESSEL																			
Inspected vessels:																			
Passenger and ferry—large	1	1	2	11	4	2													45
Passenger and ferry—small	7	6	3	14	11	2													41
Freight	42	78	7	117	51	11	3	8	14	42	89	11	49	7	60	110	17	716	
Cargo barge	16	1	2	23	15	2				14	11	3	8	1	1	1	2	49	49
Tankships	20	19	1	29	34	1	1	1	1	25	33	2	15	14	14	28	3	227	
Tank barge	117	39	3	85	29	9			2	35	11	7	3	4	4	2	5	351	
Public	1	5	5	5	5				1									13	
Miscellaneous	12	7	1	11	11				3	3	4	5	2			4	1	64	
Uninspected vessels:																			
Fishing	71	25	6	17	51	2	13	2	45	112	49	107	80	5	82	7	7	672	
Tugs	205	84	11	204	79	2	1	23	82	90	90	9	2	5	2	9	2	541	
Cargo barge	48	39	12	17	12	1			8	15	12	1		2	1	2	1	170	
Foreign	94	45	6	151	36	2			3	34	14	56	2	1	4	2	2	174	
Miscellaneous	52	73	4	12	35	3	5		20	17	2	33	4	2	2	2	7	271	
GROSS TONNAGE																			
300 tons or less	325	194	21	199	171	4	28	3	90	200	87	241	93	3	15	92	23	1,789	
Over 300 to 1,000 tons	158	67	13	230	75	10			9	66	35	64	7	1	6	3	28	772	
Over 1,000 to 10,000 tons	151	119	18	205	87	15	3	5	21	93	83	16	45	5	60	103	22	1,051	
Over 10,000 tons	52	42	10	46	38	2	1	4	5	31	61	4	30	2	20	48	5	399	
LENGTH																			
Less than 100 feet	269	154	20	166	147	2	23	3	79	174	81	212	86	3	13	87	18	1,537	
100 to less than 300 feet	312	135	18	335	134	13	5		23	132	49	102	20	1	11	13	38	1,341	
300 to less than 500 feet	44	73	12	92	40	13	3	5	16	41	68	6	34	3	47	58	15	600	
500 feet and over	61	60	12	87	58	3	1	4	7	43	68	5	35	4	30	38	7	533	
AGE																			
Less than 10 years	315	159	22	250	128	10	6		34	113	80	76	57	6	19	49	22	1,346	
10 to less than 20 years	209	119	9	188	97	7	8	2	29	96	45	101	47	10	16	46	20	1,042	
20 to less than 30 years	105	98	22	147	93	11	13	10	45	112	108	69	64	4	54	11	24	1,103	
30 years and over	57	46	9	95	53	3	5		17	69	33	79	7	1	9	11	12	533	
LOCATION OF CASUALTY		Number of Casualties																	
Inland—Atlantic	28	25	4	59	51	10	5	6	20	73	59	34	2	5	20	8	8	467	
Inland—Gulf	98	48	4	109	160	7	6	2	28	45	49	71	80	1	5	13	6	680	
Inland—Pacific	10	14	2	37	27	2	10	1	20	57	44	34	2	2	9	40	3	377	
Ocean—Atlantic	10	2	3	17			1	5	9	6	19	33	5	4	40	15			
Ocean—Gulf	15	6	3	6	25	1	5		12	33	7	31	3	52	1	274			
Ocean—Pacific	19	5	2	3	12		1	1	11	20	8	24	26	1	51	1	247		
Great Lakes	7	12	3	72	19	1			4	19	19	3	4	1	11	13	4	291	
Western rivers	34	19	3	71	21	3			17	27	5	42	4	6	1	6	1	243	
Ocean—other	1	1	1	5	5			1	6	6	1	1	1	1	6	1	45		
Foreign waters	7	33	2	25	9	1	1	4	11	22	1	8	13	14	13	13	13	165	
TIME OF DAY																			
Daylight	95	96	14	214	135	10	20	8	67	146	127	132	86	5	68	147	23	1,323	
Nighttime	127	61	12	146	99	13	11	4	47	144	78	118	72	3	24	87	11	1,060	
Twilight	5	8		23	12	2	1		8	10	20	10	6	1	2	16	3	127	
ESTIMATED LOSSES—UNITS OF THOUSANDS																			
Vessel	5,650	9,990	1,840	3,064	2,892	1,220	2,414	520	6,775	9,664	96	11,917	2,167	13	886	3,612	1,069	63,306	
Cargo	407	298	74	228	30	743	1,003	15	262	13	1,217	584	203	7	98	14	5,186		
Property	138	318	2	5,861	1,314	100	4	4,106	271	23	374	24	1	11	3	116	12,676		
VESSELS TOTALLY LOST																			
Inspected	2		1	9	21	1	16	2	44	34		10	1		1		7	317	
Uninspected	20	6	1	9	21	1	16	2	44	34		127	28		1		7		

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-857.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY¹

Nature of casualty													Total			
July 1, 1967, to June 30, 1968 Fiscal year 1968													Total			
		Collisions, crossing, meeting, and over-taking	Collisions, while anchored, docking, or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel	Explosion and/or fires—boilers	Grounding without damage	Founding, capsiz- ing, and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and en- gineering equipment	Casualty not otherwise classified
Number of casualties	12	6	3		5	8	5	1	17	1	80		8	2	3	96
Number of deceased/injured—inspected vessels	/8	/10	/7		8/7	/1	/1	4/3	/1		38/..		8/..	/2		48/37
Number of deceased/injured—uninspected vessels	22/2	4/4	2/..		5/3	1/5	12/20				44/14		/92	2/2		92/52
Number of persons deceased/injured	22/7	4/14	2/7		5/3	3/7	1/6	16/23	/1		82/14		8/2	/2	2/2	140/89
PRIMARY CAUSE																
Number of casualties																
Personnel fault:																1
Pilots—State	1															
Pilots—Federal																
Licensed officer—documented sea-man	3		2		1	1	1	1	1		8					12
Unlicensed—undocumented persons	6	2	1		2	1	1	5	1		5		1			23
All others	4	1			2	2		1			2		1	1		12
Error in judgement—calculated risk																2
Restricted maneuvering room																
Storms—adverse weather																5
Unusual currents																2
Sheer, suction, bank cushion																1
Depth of water less than expected																1
Failure of equipment	1					2	3	6			3		4	2		21
Unseaworthy—lack of maintenance											4		1			5
Floating debris—submerged object																
Inadequate tug assistance																
Fault on part of other vessel or person																
Unknown—insufficient information																2
																8
DEATH/INJURED BY VESSEL TYPE																
Number of Persons Deceased/Injured																
Inspected vessels:																
Passenger and ferry—large																
Passenger and ferry—small																1/1
Freight	/6	/1					/1	/1	/1		2/..		1/..			2/7
Cargo barge											36/..		1/..			37/9
Tankships		/9	/1													1/1
Tank barges							3/4		/1				1/..			3/6
Miscellaneous																4/2
Uninspected vessels:																
Fishing	1/..		2/..		3/2		2/	1/7			33/3					40/15
Tugs	1/2						1/..	2/..			3/3		2			
Foreign	12/..							5/3					1/2			17/5
Miscellaneous	8/..	4/4			2/1		7/3		4/10		8/8			1/..		26/27
PARTICULARS OF PERSON DECEASED/INJURED																
Papers of deceased/init.red:																
Licensed by Coast Guard	/1	/12	/1		1/1		1/..	1/1			16/3					21/21
Documented by Coast Guard	/2															2/5
No license or document	10/4	4/2	2/6		3/2	2/5	7/6		12/23	/1	66/11		3/..	1/..		102/61
Other—unknown—foreign	12/..				1/..			1/				1/1				18/2
Status or capacity on vessel:																
Passenger	5/..	/2	/6		2/..											11/3
Longshoreman—harbor worker																3/5
Crewmember	16/7	/12	2/1		3/2	1/3	1/6	1/..	8/13		75/11		3/1	2/2		110/61
Other and unknown	2/..	4/			/1				7/10		3/3					16/14
Activity engaged in:																
Off duty	/1		1/1		/1		2/4	7/2			2/3			1/..		9/8
Deck department duties	12/5	/6	1/..		/1		3/4	7/2			46/4		2/..	1/1		65/20
Engine department duties	2/..	/1						1/..	1/4		1/..		1/..			5/8
Stewards department duties																2/6
Handling cargo																1/1
Fishing																24/2
Drills																
Passenger	4/..	/1	/6		5/2	/3	7/3		8/11		11/6					5/8
Other and unknown	4/1	1/1														29/27
Location of vessel:																
At dock								3/7	7/3	/1	5/8					8/23
At anchor											3/4		1/..			7/16
Underway	22/7	4/3	2/7		5/3		1/3		7/12	/1	79/11		3/..	2/2	2/1	125/50
PART OF BODY INVOLVED																
Head and upper limbs	1/..	1/5	/2								1/3		2/..			2/15
Back and lower limbs	/2	/9	/5								7/6	/1	4/..			/18
Multiple injuries (internal and external)	4/..	/9	/5		/1	2/5	1/5		2/15		1/8		1/..	2		6/56
Death—heart																
Death—drowning	8/..	3/..	2/..		2/..						42/..		1/..			59/..
Death—other	14/..				3/..	1/..					39/..		3/..	2/..		73/..

¹ Statistics concerning recreational boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS¹
(Not Involving a Vessel Casualty)

		Nature of death																					
		Natural cause	Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects, operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains, or were rope	Pinching and crushing	Heavy weather	Overexertion, sprains, and strains	Cuts, lacerations, bruises, and punctures	Abductions and kidnaping	Unknown or insufficient information
Total	434	CAUSE OF DEATH		213	2	7	3	9	1	126	8	28	6	2	...	1	1	1	2	1	1	1	6
19	Intoxication	3		2				1		11													2
218	Physical deficiency or handicap	207					1			10													
18	Unsafe movement or posture	1				5	3	1	3	9		1											1
32	Psychological—immaturity, insanity	1								23		1											1
15	Unsafe practice	1							1	4	3	3	1										1
4	Violation of law or regulation	1							1														1
77	Human errors	77					2	5	1	7	42	3	9	2	2								2
1	Decks—slippery or cluttered									1		1											
10	Weather conditions	1								8		1											
1	Poor maintenance or housekeeping	1																					
1	Inadequate lighting	1																					
4	Inadequate rails or guards	4																					
16	Failure of equipment	16																					
2	Inadequate supervision	2																					
6	Inadequate life preservers	6																					
1	Inadequate tools or equipment	1																					
2	Inadequate protective equipment	2																					
7	Miscellaneous causes	7								5													
		TYPES OF VESSELS INVOLVED																					
49	Inspected vessels:	Passenger and ferry—large		36	1		1			9									1				1
18		Passenger and ferry—small		12	2					7	23	4	9	3		2		2				1	1
159		Freight ships and barges		100	1	2	4			10	2	1											2
33		Tankships and barges		16	1	1	1																
4		Public		3																			
18		Miscellaneous		9																			
		TIME OF DAY																					
248	Daytime	128		3	5	1	1	1	9	59	3	20	4	2		2	1	1	4		1	5	
160	Nighttime	75		1	4	1	2	1	4	59	5	5	2				1					1	
26	Twilight	10		1	2	2	2	1	2	19	7	1	3										
		PARTICULARS OF DECEASED																					
60	Papers of deceased:	Licensed by Coast Guard		52	1					5		1											
145		Documented by Coast Guard		82	4	1	4	1	1	5	22	5	2		1							1	3
224		No license or document		78	2	2	2	5	1	8	85	5	22	3	2								
5		Other—unknown—foreign		1						2	1	1											
		STATUS CAPACITY ON VESSEL																					
57	Status capacity on vessel:	Passenger		44	2		1			7		1											1
40		Longshoreman—Harbor worker		5	1		4			3	10	2	12	1									
295		Crewmember		155	1	5	3	4	2	8	89	5	9	3	1							1	4
42		Other		9					1	2	19	1	6	3									1
167	Activity engaged in:	Off duty		111	2	3	2	3	1	2	41												2
87		Deck department duties		23				2		1	7	35	7	6	1	2							
21		Engine department duties		13						1	2		1	1									
13		Stewards department duties		6		2	1	1		2		3											
25		Handling cargo		3						2		6		11	1								
26		Fishing		8		1					14		1										
52		Drills																					
43		Passenger		41	1		1			7		1											
176	Location of vessel:	Other and unknown		8				2	1	1	17	1	8	3									
29		At dock		68	2	1	2	8	1	2	48	6	22	3	1		1		4				
229		At anchor		10	1	1	2			1	11	1	1					1					
		Underway		135	5	1	1			4	66	2	5	2	1	1	1	1					1
		PART OF BODY INVOLVED																					
29	Head and upper limbs	1				6	1	6		3	11				1								
3	Back and lower limbs	2				2	1	1	5	1	3	18		2	1			2					
33	Multiple injuries (internal-external)	189		1		4	3	1	1	116	4	2	3	4									
104	Death—heart	128																					
128	Death—drowning	24		1	2													1	1				5
47	Death—other																						

¹ Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS¹—Continued

(Not Involving a Vessel Causality)

	Total	July 1, 1967, to June 30, 1968										Nature of injury											
		Slips and falls—ladders					Slips and falls—gangways					Slips and falls—on deck											
		Slips and falls	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Slips and falls	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cought in lines, chains, or wire ropes	Impaling and crushing	Heavy weather	Oxygenation, spasms, and strains	Cuts, lacerations, bruises, and punctures	Alterations and misconduct	Unknown or insufficient information
115	Part of body injured:																						
116	Head and neck	12	4	18	12	2	29					16	1								2	16	1
97	Eye and face	1	1	11	4							2	7	4							5	29	3
160	Arm and shoulder	33		33	20	1	1					8	1	8	2	4	1	10			9	13	4
431	Hand	12	5	24	11	1						15	40	17	1	28	1	10	8		85	14	41
262	Leg and hip	25	11	38	34	1	1					37	5	3	4	5		19	10		6	6	7
304	Feet	31	7	32	44	2	1					27	4	20	1	2	12	1	38		14	2	7
285	Back	44	4	66	35	1	1					15	1	3	1	1		1	2		96	1	6
98	Body—external	8	3	12	10	1						12		3	1	13		1	2		8	3	11
74	Body—internal	10	2	20	15	1						7	1	5	1			1			7	4	
24	Hernia	1																		19		1	
291	Multiple body injuries	49	6	29	54	3	7	47				9	1	18	1	3	3	1	6	3	43	8	
22	All other injuries	3		1	4	3		1	3											1		4	
ADDITIONAL CONTRIBUTING FACTORS TO CAUSE OF INJURY																							
431	Human element	23	7	59	34	4	47					28	15	18	2	22	1	32	11	107	21		
104	Decks—slippery or cluttered	4	1	64	18							7	1		1		1	2	3		3		
68	Weather conditions	9	2	13	10	2						6	4	1	2		10	1	3	3	3	2	
27	Poor maintenance or housekeeping	1	1	9	6							4						1	1		1	4	
27	Inadequate lighting	3		7	1	3	1					3						1	1		1		
10	Inadequate rails or guards			1	5							2											
12	Failure of equipment			2	3	1						4										2	
75	Inadequate supervision	5	1	4	10							26	3	3	2	2	2	11	3		1		
10	Inadequate tools or equipment	1		2	1							3		1				1		1	1		
34	Inadequate protective equipment			1								11	3	2	4		3		0	11	2		
55	Improper use of tools or equipment				2							9	4	12	3	2							
328	Hull structure	25	9	131	72	2						26	11	1	4	3	5	1	26	9	3		
105	Hulls, hatches, tanks	10		11	35	1	10					9	3	4	2	1	8	10	1		1		
306	Ladders, gangways, stairs	180	34	5	20	7						5	18	2	2	3	7	25	2				
146	Mast, booms, cargo gear	5		15	19	1						55	7	5	2	6	7	11	11		2		
107	Watertight closures			12	7	1						14	17				46	5	4		1		
138	Living spaces	9	1	24	28							5	26	4		11	10	3	10	6	10	2	
41	Fishing equipment			3	3	1						13	2	5		11	2	1	1				
19	Navigational equipment	2	2	4	3	1						4											
31	Lifesaving equipment	1		4	9							5	1	1		1		6	2		1		
12	Firefighting equipment				3							5	1				3						
1	Communications equipment																					1	
83	Inproper loading, stowage, and ventilation	1		7	24	1						21	1	3	2	2	5	9	6		1		
27	Ground tackle			2	1							11		1	1	1	1	4	4				
20	Tugs and towing equipment											10		1			4	1	3				
175	Mooring equipment			13	7	1						94	4	5	2	14	4	18	13		6		
74	Miscellaneous deck department equipment	3		5	10	1						19	3	1	3	6	4	13					
11	Main propulsion machinery				1	2	1					3		1	1	1							
93	Boiler parts and accessories			1	4	13						5	7	1	41	1	3	8	6		4		
225	Auxiliary machinery	17		20	28	1						28	28	14	1	18	27	16	2	3			
32	Electrical equipment				4							8	6	2			7	3	9				
212	Galley equipment	16		36	9							14	16	10	18	16	16	10	9	9	50		
26	Causes not otherwise classified	3		3	6							3	8				1	1	1				

¹ Statistics concerning recreational boating accidents are published in CG-357.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*

	Nature of Casualty															Total	
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires— cargo	Explosion and/or fires— vessel's fuel	Explosion and/or fire— boilers, pressure vessel	Explosion and/or fire— structure, equipment all others	Grounding with damage	Grounding without damage	Foundering, capsize- ings and floodings	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and en- gineering equipment	Casualty not otherwise classified
1 July 1966 to 30 June 1967 Fiscal year 1967																	
Number of casualties.....	160	42	305	298	26	38	14	99	282	180	230	50	8	126	282	36	2,353
Number of vessels involved.....	483	344	108	540	418	33	14	100	336	198	255	51	8	129	282	76	3,373
Number of inspected vessels involved.....	147	125	33	248	164	23	12	23	113	130	33	47	8	93	135	25	1,376
Number uninspected vessels involved.....	336	200	75	292	254	10	2	77	223	68	222	4	1	117	51	1,907	
Primary cause																	
Personnel fault:																	
Pilots—State.....	10	4	10	2	1					3	3					1	33
Pilots—Federal.....		1			1					1						1	5
Licensed officer—documented sea- man.....	31	9	8	9	6	2	1	4	7	15	9	5	1	1	2	18	121
Unlicensed—undocumented persons.....	83	19	14	18	21	4	4	1	7	03	8	13	2	2	9	7	262
All others.....	12	7	9	15	11	12	1	1	7	14	9	10	1	1	9	3	127
Error in judgment—calculated risk.....	20	44	9	19	49	1	1	1	60	61	9					1	286
Restricted maneuvering room.....	11	22		95	13	2			11	22						1	177
Storms—adverse weather.....	3	19		10	28				38	12	26	47	6	10	1	2	202
Unusual currents.....		1	3	23	2			1	3	1							34
Sheer, suction, bank cushion.....	17			3	3				4	4							31
Depth of water less than expected.....	2	1		3					20	37							63
Failure of equipment.....	9	16		30	7	6	5	2	23	21	8	26	1	76	134	9	376
Unseaworthy—lack of maintenance.....	11			2	2	1	19	6	49	5	1	116	1	23	87	1	324
Floating debris—submerged object.....	1			48	12			2	14	5	18				2	1	157
Inadequate tug assistance.....	1	6		111	5	5		7	60	17	33				2	1	105
Fault on part of other vessel or person.....	282	183	55	162	111	5	4	4	2	2				1	1	39	947
Unknown—insufficient information.....	2														1	2	23
Additional contributing factors to cause of casualty																	
Hull and associated parts:																	
Plates and framing—steel.....	6	8	2	9	34				8	34	11			20	1	3	145
Planks and framing—wood.....	4	2		2	32				2	5	2			1		1	119
Tanks.....	1			2		4		3	1	7	4			6		3	31
Holds and hatches.....									1	8	4	2		5		25	
Superstructure—bulkheads, decks.....	1	3			1	3		7	1	17	27			6	1	3	70
Ladders, gangways, rails and guards.....									7	2	2			2		5	20
Masts, booms and cargo gear.....	1								1	2				13	2	2	34
Rudder and stern tube.....	1	1		1	8				6	1	23	1	1	12	7	1	40
Watertight closures.....										1				1			8
Quarters and living spaces.....																	
Navigation and safety:																	
Lookout.....	50	19	10	2	18				8	2	1						116
Docks—piers—congested area.....	32	98	2	183	36	2		1	1	26	22	7	1		6	2	416
Channels—restricted areas.....	157	35	25	89	73				75	30	4						554
Buoys— aids to navigation.....	1				10				10	12							33
Excessive speed.....	25	12	27	9	4				3	5	3						95
Poor visibility.....	7	8	15	9	6				23	19	2			1		1	91
Steering gear.....	16	5	1	10	2				22	6	2			4	4	4	72
Radar.....	6	4	19	1	1				1	4	2						38
Fathometer—depth of water.....				1	17				5		1						24
Engine order telegraph.....		1		8	1				2		1						14
Navigation equipment—other.....	9	1	1	1	3				50	12	1						73
Navigation lights.....	7	3	1		10				1		1						23
Navigation signals.....	117	3	27	2	11				4								164
Weather (generally).....	11	17	1	72	26				26	25	32	3	7	7	1	8	226
Currents and tides.....	48	36	4	141	29	2			32	31	7	4	3	11		4	334
Lifesaving equipment.....																	28
Firefighting equipment.....	1			1		2	1	5									11
Miscellaneous:																	
Yard repairs.....				2	1	8		8	2	1	5	1	2	12	1	1	41
Improper loading or stowage.....		2	42	21	174	74	3	17	21	62	19	25	11	15	1	2	100
Tug assisting.....	161	46	4	5	10				35	7	4	1		18	2	2	589
Anchor equipment.....	2	46	4	8	8				7	2	8						40
Towing equipment.....	5	2							1	10	6	20	3	2			192
Mooring equipment.....	3	83	4	25	20	2			6	1	6			1		5	30
Fishing equipment.....	6	1	1	3												2	2
Deck equipment—all other.....	1																2
Engineering:																	
Main propulsion machinery.....	2	14		15	76		17		12	18	2	18	1	22	148	9	354
Boiler parts and accessories.....	2	3	1	3	17		21		7	1	2	11	2	4	131		205
Machinery—all other.....									1			32	1	1			39
Tools and working spaces.....							11		21			7					42
Generators and other electrical equipment.....														2		1	39
Wiring, lights, controls.....	1			3	1	3	7		42	8	2		2	5	32		39
Steward's department:				1	1	4	1		15	1				2	3	1	39
Galley and steward's department equipment.....									1	23							23

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*—Continued

	Nature of casualty														Total			
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and buoys	Collisions, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire structure, equipment all others	Grounding with damage	Grounding without damage	Founderings, capsizings and floodings	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casually not otherwise classified	
Type of vessel																		
Inspected vessels:																		
Passenger and ferry—large	6	1	11	6	1	3	1	9	3	6	4	5	1	1	1	32		
Passenger and ferry—small	8	3	7	7	2	12	10	10	38	74	5	6	72	93	15	54		
Freight	20	6	16	112	82	3	10	10	9	5	2	1	14	30	2	65		
Cargo barge	5	9	2	7	14	2	1	1	1	6	2	1	1	1	1	66		
Tankships	11	14	2	24	25	2	1	1	1	52	9	1	1	1	1	199		
Tank barge	98	27	11	80	122	8	1	1	33	9	4	1	1	1	1	309		
Public	1	4	3	4	4	1	1	1	1	3	12	1	3	4	1	57		
Miscellaneous	4	3	1	4	4	1	1	1	1	12	1	6	6	2	1	32		
Uninspected vessels:																		
Fishing	53	30	7	12	51	15	39	94	20	98	3	16	111	16	16	565		
Tugs	168	52	28	172	103	3	1	14	69	16	61	3	3	4	6	704		
Cargo barge	51	26	10	69	32	2	2	25	5	37	1	9	87	23	23	392		
Foreign	33	63	25	25	13	4	4	15	23	1	1	1	1	1	4	222		
Miscellaneous	31	38	5	14	55	2	1	18	10	4	25	3	6	1	2	215		
Gross tonnage																		
300 tons or less	231	124	34	184	200	3	26	2	76	173	44	197	4	19	117	24	1,458	
Over 300 to 1,000 tons	130	54	21	124	68	9	9	9	55	14	35	3	17	3	26	568		
Over 1,000 to 10,000 tons	95	120	43	169	112	18	2	10	11	80	42	15	21	5	59	952		
Over 10,000 tons	24	46	10	63	38	3	1	2	4	28	8	23	3	33	45	395		
Length																		
Less than 100 feet	204	105	28	159	173	3	25	2	68	155	33	185	3	18	113	23	1,297	
100 to less than 300 feet	218	89	43	200	121	12	1	1	19	102	34	55	6	19	13	30	961	
300 to less than 500 feet	35	87	23	76	70	16	1	9	8	44	57	7	15	5	46	70	586	
500 feet and over	26	63	14	105	54	2	2	3	5	35	74	8	27	3	46	56	529	
Age																		
Less than 10 years	198	111	47	193	184	12	8	1	18	94	48	55	16	3	16	71	31	1,056
10 to less than 20 years	148	97	30	148	113	9	12	1	34	89	39	83	2	21	60	18	904	
20 to less than 30 years	100	94	21	132	130	10	5	11	29	97	83	66	30	5	71	109	29	1,013
30 years and over	37	42	10	67	41	2	4	1	19	56	28	51	3	20	12	7	400	
Location of casualty																		
Inland—Atlantic	17	23	7	53	40	6	8	2	18	67	49	29	1	15	16	5	24	
Inland—Gulf	80	40	11	122	83	5	9	4	26	45	45	55	1	15	16	6	57	
Inland—Pacific	6	25	4	31	47	4	6	1	17	47	21	35	3	11	13	2	27	
Ocean—Atlantic	2	1	7	1	11	1	1	1	4	8	6	14	13	2	10	1	31	
Ocean—Gulf	10	3	4	25	1	7	2	2	13	16	2	39	1	14	14	2	24	
Ocean—Pacific	5	1	3	18	3	2	2	1	9	29	2	25	21	4	19	44	18	
Great Lakes	4	11	6	64	14	1	2	1	4	32	27	3	16	10	1	5	14	
Western rivers	26	10	6	54	21	3	1	1	4	19	5	24	7	7	1	3	18	
Ocean—other	10	40	4	35	34	3	3	3	15	22	2	7	2	3	1	1	25	
Foreign waters																	212	
Time of day																		
Daylight	75	91	24	219	165	19	15	5	54	138	27	134	27	5	83	136	26	1,811
Nighttime	79	58	18	128	120	6	9	6	39	128	72	84	23	3	39	101	12	925
Twilight	6	5	18	13	1	5	8	6	18	11	12	4	4	16	16	16	117	
Estimated losses—units of thousands																		
Vessel	4,038	3,470	3,260	3,381	3,499	457	4,024	185	5,058	10,568	20	6,777	770	7	4,413	3,187	970	53,080
Cargo	3,132	509	51	218	102	275	732	185	188	1,700	1,325	46	1,124	65	3	261	8,801	
Property	34	346	3	3,857	187	1	4	2	262	278	5	71	20	3	10	5,183	12,262	
Vessels totally lost																		
Inspected	1	11	4	3	36	2	2	4	2	42	60	88	1	4	1	18		
Uninspected	17	11	4	3	36	1	20										276	

*Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY*

	Nature of casualty														Total		
	Collisions; crossing, meeting and over- taking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires— cargo	Explosion and/or fires— vessel's fuel	Explosion and/or fire— boilers, pressure vessel	Explosion and/or fire— structure, equipment all others	Grounding with damage	Grounding without damage	Founding, capsiz- ing and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and en- gineering equipment	Casualty not otherwise classified
1 July 1966 to 30 June 1967 Fiscal year 1967																	
Number of casualties.....	10	6	3	2	7	4	2	4	12	4	24	1	—	9	4	4	96
Number of deceased/injured—inspected vessels.....	..8	..1	..1	—	4/3	8/2	2/4	3/3	—	—	3/..	—	—	28/3	..5	7/2	53/32
Number of deceased/injured—unin- spected vessels.....	42/16	1/0	1/1	..1	5/7	9/1	..3	11/12	..6	44/6	..3	—	9/16	1/..	..5	123/86	
Number of persons deceased/injured.....	42/24	1/0	1/2	..2	5/7	13/4	8/5	2/4	14/15	..6	47/6	..3	—	37/19	1/5	7/7	178/118
Primary cause																	
Personnel fault:																	
Pilots—State.....	1		1														2
Pilots—Federal.....																	
Licensed officer—documented sea- man.....	2	2	2		2			1		1	3						9
Unlicensed—undocumented persons.....	4	1			1			1	1		1						8
All others.....	3	2		2	1			1	1		1						9
Error in judgment—calculated risk.....																	
Restricted maneuvering room.....																	
Storms—adverse weather.....																	
Unusual currents.....																	
Sheer, suction, bank cushion.....																	
Depth of water less than expected.....																	
Failure of equipment.....																	
Unseaworthy—lack of maintenance.....																	
Floating debris—submerged object.....																	
Inadequate tug assistance.....																	
Fault on part of other vessel or person.....																	
Unknown—insufficient information.....																	
Death/injured by vessel type																	
Inspected vessels:																	
Passenger and ferry—large.....	..5		..1								1/..						1/5
Passenger and ferry—small.....	..1		..1									28/3	..5	7/2	38/16		
Freight.....																	
Cargo barge.....																	
Tankships.....																	
Tank barges.....																	
Public.....																	
Uninspected vessels:																	
Fishing.....																	
Tugs.....																	
Foreign.....																	
Miscellaneous.....																	
Particulars of person deceased/injured																	
Persons of deceased/injured:																	
Licensed by Coast Guard.....																	
Documented by Coast Guard.....																	
No license or document.....																	
Other—unknown—foreign.....																	
Status or capacity on vessel:																	
Passenger.....	..8	..3															1/11
Longshoreman—harbor worker.....																	10/23
Crewmember.....																	107/55
Other and unknown.....																	60/29
Activities engaged in:																	
Off duty.....																	
Deck department duties.....																	
Engine department duties.....																	
Stewards department duties.....																	
Handling cargo.....																	
Fishing.....																	
Drills.....																	
Passenger.....																	
Other and unknown.....																	
Location of vessel:																	
At dock.....																	
At anchor.....																	
Underway.....																	
Part of body involved																	
Number of persons deceased/injured																	
Head and upper limbs.....	..3	..4	..1	..1	..1	..3	2/..	..1	..1	..2	..1						2/15
Back and lower limbs.....	..3	..5	..1	..1	..3	8/4	8/3	2/1	9/12	..5		..4					21/
Multiple Injuries (internal and external). .	..18	..18	..1	..1	..3	..3	..3	..1	..1	..2							35/82
Death—heart.....																	
Death—drowning.....																	
Death—other.....																	

*Statistics concerning recreational boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS*

(Not Involving a Vessel Casualty)

		Nature of death																	
		Natural cause		Homicide		Suicide		Disappearance		Ships and falls - ladders		Ships and falls - gangways		Ships and falls - on deck		Ships and falls - other		Falls from vessel - into water	
		Cause of death	473																
Total	28	Intoxication	5																
	228	Physical deficiency or handicap	220	1	1	2	1	3											
	5	Unsafe movement or posture							1	3									
	40	Psychological-immaturity, insanity	5	16	1				1	23									
	14	Unsafe practice	1						1	5	2	2	5						
	8	Violation of law or regulation							1	1		1							
	8	Human errors							5	49	9	2	3						
	1	Decks - slippery or cluttered							1	1						2	1		
	6	Weather conditions							1	1									
	1	Poor maintenance or housekeeping																	
	1	Inadequate lighting																	
	1	Inadequate rails or guards																	
	19	Failure of equipment																	
	15	Inadequate supervision																	
	2	Inadequate life preservers																	
	2	Inadequate tools or equipment																	
	1	Inadequate protective equipment																	
	1	Improper use of tools or equipment																	
	3	Miscellaneous causes																	
		Types of vessels involved																	
		Inspected vessels																	
	55	Passenger and ferry-large	43	6							3	3							
	19	Passenger and ferry-small	10	3	1	1					3	1							
	172	Freight ships and barges	104	2	4	2	5	3		10	19	4	8	5	1				
	43	Tankships and barges	26	4	1			1			3	2		4					
	5	Public	4																
	14	Miscellaneous	4								1	4	1	2					
		Uninspected vessels																	
	56	Fishing	14	4		1				2	32		2						
	46	Tugs	15								27		3						
	28	Foreign	2		1					1	10	6	2	1					
	32	Miscellaneous	3							2	19	1	5	1					
		Time of day																	
	267	Daytime	135	5	7	1	3	2		12	54	11	17	3	2	2	2		
	184	Nighttime	82	1	11	3	2	3		4	54	3	8	9		2	1		
	22	Twilight	8							12		1							
		Particulars of deceased																	
		Papers of deceased:																	
	74	Licensed by Coast Guard	59	3		1	1			1	6		1						
	163	Documented by Coast Guard	95	2	6	3	1	4		8	24	3	7	1					
	214	No license or document	70	4	8	2	4			7	79	7	21	3	1				
	22	Other - unknown - foreign	1								11	4	1	2					
		Status or capacity on vessel:																	
	61	Passenger	63	2	8	1	3				6								
	31	Longshoreman - Harbor worker	2							3	8	7	5	1					
	349	Crewmember	175	4	10	4	2	8		12	96	7	9	6	1	4	3		
	32	Other	6							1	10		12	8					
		Activity engaged in:																	
	177	Off duty	111	1	8	4	1	5		2	26	1	5						
	99	Deck department duties	28	1	1		1			8	38	6	7	6	1	2	1		
	32	Engine department duties	19	1							5	3							
	16	Stewards department duties	11	1							4								
	14	Handling cargo	1							1	4	3	3	1					
	30	Fishing	10							1	12		2						
	3	Drills	2								7								
	59	Passenger	40	2	8	1	1			3	13	1	14	8					
	43	Other and unknown	5	1		2													
		Location of vessel:																	
	176	At dock	66	2	2		4	8		11	46	8	15	8	1				
	37	At anchor	14							1	13	1	4	1		1	1		
	260	Underway	140	4	16	5	2			4	61	6	7	3	1	1	2		
		Part of body involved																	
	6	Head and upper limbs									1		1	3					
	3	Back and lower limbs																	
	195	Multiple injuries (internal and external)									1								
	116	Death - heart	104		7						1								
	153	Death - drowning	31	6	11	5	8	5		13	20	12	21	12	2	4	2		
	153	Death - other																	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS*
(Not Involving a Vessel Casualty)

		Nature of injury																		
		Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by object; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, impaled into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinchng and crushing	Heavy weather	Oversettng, sprains and strains	Cuts, lacerations, bruises and punctures	Altereations and misadventures	Unknown or insufficient information
Total																				
14	10	8	17	2	1	1	4	1	2	2	1	1	2	1	1	1	4	8	1	
22	4	1	3	4	1	1	2	5	5	1	1	1	1	1	1	1	1	6	1	
165	6	3	6	27	3	1	4	2	2	1	1	1	1	1	1	1	1	1	1	
29																			2	
95																			2	
Violation of law or regulation																			2	
Human errors	129	15	65	136	8	7	124	64	8	44	20	64	36	57	80	33				
Decks—slippery or cluttered	16	3	18	47	1	1	10	41	1	1	1	1	5	3	1	1				
Weather conditions	10	4	17	43	1	4	3	2	1	1	1	1	1	1	1	1			1	
Poor maintenance or housekeeping	7	1	17	15	8	2	59	2	3	14	1	1	3	7	2	2			2	
Inadequate lighting	4		3	8	2	1	59	8	1	12	1	1	3	1	1	1			1	
Inadequate rails or guards	5		2	14	2	1	53	6	12	4	1	1	3	3	13	1			4	
Failure of equipment																			1	
Inadequate supervision	7		3	5															1	
Inadequate life preservers																			2	
Inadequate tools or equipment	7																		2	
Inadequate protective equipment	23																		2	
Improper use of tools or equipment	72																		4	
Miscellaneous causes	4																		1	
Types of vessels involved																				
Inspected vessels:																				
Passenger and ferry—large	25	4	36	35	1	25	24	2	15	1	17	26	15	10	11					
Passenger and ferry—small	2		2	5		4	1	1	1		1	1								
Freight ships and barges	162	32	129	270	11	11	193	106	22	64	30	64	124	91	76	30				
Tankships and barges	20	3	15	20	1	22	1	8	5	10	7	7	8	5	15	5			2	
Public	7		3	4		4	1	1	1		1	1	3	1	1	1			2	
Miscellaneous	1		1	1	1	10	1	1	2		1	2	3	3	3	3				
Uninspected vessels:																				
Fishing	57		4	2	1	21	2	2			11	3		2	1	8				
Tugs	32		1	3	1	12	2	2			4	1	1	2	2					
Foreign	3		1	1	1	1	1	1			1	1		1		1				
Miscellaneous	18		1	3	1	4	2	1	1	2	2	1	2	1	1	1			1	
Time of day																				
Daytime	148	14	115	245	7	9	239	1	94	26	76	1	37	77	1	130	88	39	52	
Nighttime	62	20	67	89	6	5	54	45	5	15	10	14	1	30	24	53				
Twilight	9	6	11	10	2	13	8	3	3	2	4	5	2	5	8	13				
Particulars of person injured																				
Papers of person injured:																				
Licensed by Coast Guard	22	5	15	33	2	22	11	6	20	4	9	10	13	7	8					
Documented by Coast Guard	185	35	167	292	12	11	228	130	23	60	31	80	152	102	94	41				
No license or document	12		11	18	3	1	46	1	6	2	6	14	5	1	3	5	4	8		
Other—unknown—foreign	2																			
Status or capacity on vessel:																				
Passenger	4		2	7		10	1	1	1		1	1							1	
Longshoreman—harbor worker	2		1	1		10														
Crewmember	212	40	190	335	15	14	263	1	145	31	90	1	49	94	2	184	120	105	54	
Other	1		1	1		3	1	1	2	1	2	1	1	1	1	1			2	
Activity engaged in:																				
Off duty	56	38	33	71	6	1	11	30	7	22	22	9	18	66	6					
Deck department duties	61	2	90	127	7	9	180	1	59	12	10	87	29	1	80	42	11	6		
Engineering department duties	54		23	69	3	52	25	17	60	1	2	13	41	37	10	13				
Stewards department duties	25		34	50		18	23	14	1	2	1	21	30	19	15	26				
Handling cargo	1		3	10		8	1	1	1	1	1	2								
Fishing	1		3	1	1	15	1	1	1	1	1	8	3	1	1	1	1	3		
Drills	1		3	6	5	5	3	1	1	1	1	2	2	2	1	1	1	1		
Passenger	4		3	5	1	7	2	2	2	1	1	1	1	1	1	1	1	1	1	
Other and unknown	7		3	5	1	1	7	2	2	2	2	2	2	1	1	3	3	2	1	
Master of vessel																				
On deck	81	27	75	113	11	10	144	1	45	5	37	22	31	55	40	58	21			
Ashore	28	12	24	32	2	20	15	4	4	132	22	46	1	5	5	18	20	16	8	
On land	113	1	94	199	2	4	87									92	60	31	28	

* Commercial fishing and pleasure boating accidents are published in CG-857

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD COMMERCIAL VESSELS*—Con.
(Not Involving a Vessel Casualty)

	Nature of injury															
	Slips and falls—ladders			Slips and falls—gangways			Slips and falls—on deck			Slips and falls—other			Falls from vessel—into water			
	Falls into holds or tanks			Struck by objects; falling, dropped or moving			Exposure and asphyxiation			Struck against, crushed, bumped into objects			Operating machinery and tools			
Total	Part of body injured:															
142	Head and neck	21	3	15	19	2	36	15	12	1	1	1	1	1	1	
57	Eye and face		3	25	35	1	11	14	1	7	1	2	1	5	24	
167	Arm and shoulder	23	3	2	13	19	28	21	21	11	1	29	77	8	1	
384	Hand	15	2	34	65	5	52	35	5	8	4	4	5	16	2	
262	Leg and hip	20	7	27	44	2	61	21	1	13	1	10	7	11	8	
282	Foot	37	16	27	44	1	57	20	1	13	1	1	1	1	1	
256	Back	49	1	34	51	2	7	11	1	20	1	1	1	5	5	
121	Body—external	12	2	12	29	2	13	8	1	1	1	1	1	3	13	
116	Body—internal	16	3	14	25	2	16	15	1	1	1	1	1	10	11	
12	Hernia															
166	Multiple body injuries	23	3	15	45	2	3	19	7	1	22	3	1	1	19	
24	All other injuries	3	1	5	1	1	1	2	2	1	1	1	1	1	3	
	Additional contributing factors to cause of injury															
287	Human element	22	7	12	29	2	1	32	12	3	16	4	13	8	13	105
43	Decks—slippery or cluttered	1	1	18	14	1		3	1	1		1	4	1	4	8
39	Weather conditions	2	3	14	10			3	2			1				1
25	Poor maintenance or housekeeping	2		6												
5	Inadequate lighting	1		2	4											
5	Inadequate rails or guards															
35	Failure of equipment															
35	Inadequate supervision	1	1		4			11	1	2	7	1	2	3	1	1
1	Inadequate tools or equipment															
9	Inadequate protective equipment															
15	Improper use of tools or equipment	1		2				3			2					
283	Hull structure	14	1	112	93			6	5	32	1	6	1	10	8	1
153	Holds, hatches, tanks	12		12	56	14	15	1	8	6	2	11	6	11	6	1
291	Ladders, gangways, stairs	199	39	3	6	7	6	6	10	2	5	2	13	13	2	2
145	Masts, booms, cargo gear	5		15	21		46	14	3	2	10	3	13	13	3	2
106	Watertight closures	1		7	15		10	13	2	2	51	2	2	2	3	2
201	Living spaces	15		23	78		4	26	6	6	18	3	11	6	11	3
33	Fishing equipment				1		14	1	1		10	1	1	1	1	
13	Navigational equipment	1		6	5		14	4	3	1	4	3	1	1	1	
34	Lifesaving equipment			2	9		9	3	1	1	4	3	1	1	1	
2	Firefighting equipment							1								
1	Communications equipment															
1	Yard repairs	1														
89	Improper loading, stowage and ventilation	4		12	19		12	1	4	3	5	5	2	6	1	
16	Ground tackle	1	1	1			4	2			3	2	2	2	2	
47	Tugs and towing equipment			3			28	3			8	1	2	2	2	
119	Mooring equipment			13	5	2	68	5			10	1	11	5	10	
227	Miscellaneous deck department equipment	6		12	36	2	2	65	18	6	4	11	8	38	3	2
12	Main propulsion machinery	1		4			3	5	46					6	3	
82	Boiler parts and accessories	2		1	7		9	5						34	27	2
318	Auxiliary machinery	36		13	61		47	26	22	27	2	11		34	27	10
21	Electrical equipment	1					6	1	2	2	2	1	15	26	4	9
206	Galley equipment	10		18	36		16	15	17	1	15	1	15	19	9	24

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*

1 July 1965 to 30 June 1966
Fiscal year 1966

	Nature of casualty																
	Collisions, crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire— cargo	Explosion and/or fire— vessel's fuel	Explosion and/or fire— boilers, pressure vessel or structure, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Cargo damage	Heavy weather damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casually not otherwise classified	Totals
Number of casualties	151	141	31	272	327	31	23	10	111	302	251	315	63	4	35	2,408	
Number of vessels involved	453	304	32	376	467	34	23	10	118	364	270	351	44	42	3,293	1,350	
Number of inspected vessels involved	137	128	32	175	23	4	10	24	131	23	173	29	13	136	28	1,943	
Number of uninspected vessels involved	316	176	39	201	284	11	19	94	233	97	322	13	17	107	14	1,943	
Primary cause																	
Personnel fault:																	
Pilots - state	14	1	4	2					4	8	1				5	39	
Pilots - Federal	2	3	4	3					4	1					1	19	
Licensed officer - documented seaman	29	6	12	15				1	1	23	9	1	3	3	1	131	
Unlicensed - undocumented persons	54	10	13	5	9	1	3	1	5	53	9	12		3	1	177	
All others	28	8	5	20	13	14	1	29	10	15	14		11	5	11	184	
Error in judgment - calculated risk	23	26	3	71	34				40	51	5	1		2	1	210	
Restricted maneuvering room	9	41							12	45	1			1	1	374	
Storms adverse weather	22			27	49	1			71	14	113	60	10	2	4	50	
Unusual currents	12								5	6	3			1	1	36	
Sheer, suction, tank cushion	13	4		14	14				6	6	2					100	
Depth of water less than expected	1			5	3				36	54	1					311	
Failure of equipment	6	14		20	11	3	3	24	20	19	14	2	33	119	3	340	
Unseaworthy - lack of maintenance				3	3	15	9	49	9	133	1	1	14	94	2	153	
Floating debris - submerged object				3	136			1	3	2						137	
Inadequate tug assistance	5	13		25	41				17	11	23			1	1	746	
Fault on part of other vessel or person	265	149	30	90	112	3			4	50	18	18	2	2	5	29	
Unknown - insufficient information	2	3			5	7			4	1	2		2	3			
Additional contributing factors to cause of casualty																	
Hull and associated parts:																	
Plates and framing - steel	1	11		9	40				1	8	2	65	15	26	4	4	186
Planks and framing - wood	1	2		3	12				5	7		62	1	1	6	1	105
Tanks				2	1				1	1		12	3	3	6	2	29
Holds and hatches									4	1		7	4	1	5	1	53
Superstructure, bulkheads, decks									7	1		14	22	3	2	3	5
Ladders, gangways, rails and guards									1			1	3	18	5	3	37
Masts, booms and cargo gear									11			53	2	2	10	1	33
Rudder and stern tube	1		1	8								2	2	2	1	6	1
Watertight closures									14			2	1				17
Quarters and living spaces																	
Navigation and safety:																	
Lookout	30	9	6	2	7				4		1						59
Docks-piers - congested area	37	77	5	141	51				1	30	57	5			4	4	406
Channels - restricted areas	109	26	7	27	41				65	27	5				1	1	38
Buoys - aids to navigation	1	1							18	16	1				6		34
Excessive speed	33	5	22	9	7				2	4	2						71
Poor visibility	6	4	16	12	12				28	28	1						62
Steering gear	12	5	16	9	6				14	12	2			2			31
Radar	2		14	1	1				8	5							9
Fathometer - depth of water									1	1	1						62
Engine order telegraph		2	1	5					38	10	2						29
Navigational equipment - other	9	4	2	6	3							1					128
Navigational lights	13	4	2	3	2												346
Navigational signals	93	6	22	3	2				72	88	73	8	7	2	3	220	220
Weather (generally)	6	25	1	52	67				26	38	13	4	5	12	3	3	29
Currents and tides	18	23	34	36													8
Life-saving equipment	1		1	3													
Firefighting equipment									5	1	2						
Miscellaneous																	
Yard repairs									8	1		3	1	3	8	4	35
Improper loading or storage									21	1		36	15	2	10	2	95
Tug assisting	139	48	10	96	94	3			2	1		55	19	35	2	3	566
Anchor equipment												25	12	8	3	5	113
Towing equipment		5	8		9	12			7	6		18					68
Mooring equipment		2	10	24	40	2			22	6		35	3		1	13	208
Fishing equipment	3					1	5		2	6		8	2	2	1	2	32
Deck equipment - all other												1					2
Engineering																	
Main propulsion machinery	5	8		17	70				17	16	12	21		2	155	5	346
Boiler parts and accessories	3			1	1				11	1	6	7		1	87		114
Machinery - all other												8					11
Tools and working spaces									2	5	1	8			4		46
Generators and other electrical equipment	2			2	3	2	5		41	1	3	2			32		93
Wiring, lights, controls							1		19	1	3	2		1			26
Steward's department										10							10
Galley and steward's department equipment																	

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*—Continued

Type of vessel	Nature of casualty														Totals			
	Collisions: crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with tugs and bridges	Collisions, all others	Explosion and/or fire— cargo	Explosion and/or fire— vessel's fuel	Explosion and/or fire— boilers, pressure vessel	Explosion and/or fire— structure, equipment, all others	Grounding without damage	Grounding with damage	Foundering, capsizing and flooding	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified		
1 July 1965 to 30 June 1966																		
Fiscal year 1966																		
Inspected vessels:																		
Passenger and ferry—large	2	3	3	10	13	—	—	1	—	8	11	1	1	0	1	66		
Passenger and ferry—small	7	3	2	6	14	3	—	7	10	10	9	3	3	73	18	591		
Freight	25	60	15	86	69	13	—	7	10	38	84	3	57	2	1	62		
Cargo barge	6	4	2	7	19	—	—	—	—	7	9	2	3	—	1	2		
Tankships	15	22	6	12	25	2	—	2	2	21	42	3	11	14	29	239		
Tank barge	82	23	3	37	33	8	1	1	1	39	9	10	1	1	1	251		
Public	8	1	1	7	—	—	—	2	4	6	6	1	3	10	1	43		
Miscellaneous	5	—	6	3	—	—	—	—	4	6	1	2	4	6	1	38		
Uninspected vessels:																		
Fishing	33	16	11	5	52	10	—	44	86	18	89	4	8	96	2	474		
Tugs	103	52	10	117	116	2	3	20	74	19	77	4	9	6	6	672		
Foreign	44	53	11	16	25	5	2	6	32	45	1	—	—	3	1	243		
Cargo barge	55	29	5	50	45	2	—	10	32	8	107	2	5	4	2	351		
Miscellaneous	21	26	2	13	46	2	4	14	9	7	48	3	4	2	2	203		
Gross tonnage																		
300 tons or less	216	91	25	110	207	4	20	—	81	173	53	228	11	10	114	14	1,366	
Over 300 to 1,000 tons	114	57	9	88	98	9	1	18	70	29	101	3	7	9	4	617		
Over 1,000 to 10,000 tons	102	109	22	128	116	15	1	6	13	82	114	19	26	3	57	70	895	
Over 10,000 tons	21	47	15	41	46	6	1	4	6	39	74	3	24	1	25	50	415	
Length																		
Less than 100 feet	189	74	23	99	176	3	20	—	77	163	45	202	8	7	110	11	1,207	
100 to less than 300 feet	194	102	15	145	161	15	1	23	112	48	145	10	13	19	7	1,010		
300 to less than 500 feet	45	66	15	62	76	9	1	6	12	40	94	1	20	3	49	52	565	
500 feet and over	25	62	18	70	54	7	1	4	6	49	83	3	26	1	30	62	511	
Age																		
Less than 10 years	100	114	20	127	147	13	4	1	27	101	79	90	18	22	78	12	1,045	
10 to less than 20 years	158	69	20	106	124	6	10	1	29	105	57	126	7	11	82	12	897	
20 to less than 30 years	64	78	26	101	140	14	5	8	36	83	94	72	33	4	57	89	1,022	
30 years and over	32	43	5	48	36	1	4	26	75	47	63	6	6	9	14	14	429	
Location of casualty																		
Inland—Atlantic	14	16	7	40	46	10	5	3	20	72	84	40	2	1	17	20	406	
Inland—Gulf	68	55	5	67	101	8	5	3	32	82	71	101	5	6	8	5	602	
Inland—Pacific	8	15	5	30	41	2	4	17	36	20	20	—	1	10	13	10	119	
Ocean—Atlantic	1	4	2	14	2	2	1	5	12	10	12	20	1	5	26	2	242	
Ocean—Gulf	11	1	1	3	26	3	3	13	24	3	43	5	8	9	9	2	147	
Ocean—Pacific	5	4	3	13	3	1	12	13	2	25	20	1	16	27	2	18	213	
Great Lakes	6	15	1	60	25	—	4	27	38	6	6	9	9	19	2	1	232	
Western rivers	22	14	1	45	28	3	3	6	36	1	65	2	4	1	1	1	38	
Ocean—other	1	2	1	6	—	—	4	2	3	5	3	3	6	3	6	3	38	
Foreign waters	16	22	3	21	27	3	—	2	16	20	—	2	20	24	3	8	182	
Time of day																		
Daylight	60	76	16	154	109	21	14	6	54	111	126	147	37	68	143	25	1,227	
Nighttime	86	60	15	103	140	9	8	4	33	178	112	151	25	4	26	91	1,074	
Twilight	5	5	—	16	18	1	1	4	13	18	17	1	1	4	9	1	107	
Estimated losses—units of thousands																		
Vessel	8,671	2,262	3,018	2,041	6,303	2,730	1,608	157	4,877	15,746	—	40,255	2,213	1	889	3,833	835	95,139
Cargo	448	30	91	462	157	606	1	—	120	663	—	2,908	577	105	1,272	1	13	7,454
Property	60	38	—	2,352	295	76	4	2	70	62	—	28	—	23	—	121	3,131	
Vessels totally lost																		
Inspected	3	—	1	1	3	2	2	—	40	46	—	114	4	1	—	2	33	
Uninspected	24	6	5	6	31	3	14	—	—	—	—	114	4	1	—	2	335	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY*

	Nature of casualty														Total			
	Collisions; crossing, meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion under fire—structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure—structure and equipment	Machinery and engineering equipment	Casualty not otherwise classified	
1 July 1965 to 30 June 1966 Fiscal year 1966																		
Number of casualties.....	18	4	3	1	10	9	6	2	20	2	30	5	1	8	2	3	124
Number deceased/injured—inspected vessels.....	16	.....	1	7	.....	10	1	2	8	.....	.....	2	1	8	2	4	62
Number deceased/injured—uninspected vessels.....	85	4	20	0/7	10/12	9/18	2/9	0/2	20/24	4	0/0	63	4	8	0/2	1/4	274	
Number of persons deceased/injured.....	60/35	4/0	16/3	0/7	10/12	9/18	2/9	0/2	20/24	4/0	0/0	60/3	2/4	0/1	6/10	0/2	202/134	
Primary cause																		
Personnel fault:																		
Pilots—State.....	2											1					3	
Pilots—Federal.....			1			1											2	
Licensed officer—documented seaman.....	6		1			1	1	3									10	
Unlicensed—undocumented persons.....	2	1				1	3	1		1	1						10	
All others.....	7	1	1			2	3	1		4		1	1				21	
Error in judgment—calculated risk.....	1										1	13	4				5	
Restricted maneuvering room.....			1														1	
Storms—adverse weather.....										1							18	
Unusual currents.....												1						
Sheer, suction, bank cushion.....																	1	
Depth of water less than expected.....																	15	
Failure of equipment.....																	25	
Unseaworthy—lack of maintenance.....																	1	
Floating debris—submerged object.....																	3	
Inadequate tug assistance.....			1			2											7	
Fault on part of other vessel or person.....																		
Unknown—insufficient information.....										2	1						3	
Type of vessel involved																		
Inspected vessels:																		
Passenger and ferry—large.....					7												8	
Passenger and ferry—small.....	1											1					13	
Freight.....	2												8	1	1			
Cargo barge.....																		
Tankships.....	13		1			7	1	1				1					25	
Tank barges.....						8	1										4	
Public.....							6					1					7	
Uninspected vessels:																		
Fishing.....	4					4		7		25	4	38	3	2			87	
Tugs.....	20	1			11	1			5		14						53	
Foreign.....						14			4								95	
Miscellaneous.....	56	1	20		7	2	3		2		11	1					39	
Particulars of person deceased/injured																		
Papers of deceased/injured:																		
Licensed by Coast Guard.....	8/2					0/3	1/3		0/1	2/5		2/0	0/1	1/1	0/2		14/18	
Documented by Coast Guard.....	12/12	1/0	0/1			0/1	0/5		0/1	0/1		2/2	0/1	1/2	1/2		16/27	
No license or document.....	7/6	2/0		0/7	10/8	1/8	2/0		14/18	4/0	56/1	2/2		4/7		1/4	109/70	
Other—unknown—foreign.....	39/15	1/0	18/2			1/2			4/0								63/19	
Status or capacity on vessel:																		
Passenger.....	2/0	1/0			0/3	0/1	0/6	0/2			2/0						5/8	
L. longshoreman—harbor worker.....		1/0								1/5							10/14	
Crewmember.....	63/34	2/0	18/3	0/4	8/9	3/12	2/6	0/2	18/19	4/0	56/2	2/4	0/1	4/3	0/2	1/1	181/102	
Other.....	1/1				2/2		0/1		1/0		2/1		0/5				6/10	
Activity engaged in:																		
Off duty.....	1/10					0/2	1/2			5/9		3/2					10/25	
Deck department duties.....	30/8	1/0	9/3	0/2	3/5	2/1	1/5	8/1	2/0		27/0	1/3		3/1	0/2		87/31	
Engine department duties.....	18/5	1/0	7/0	2/0	2/1	0/3	0/1	0/2	2/7		10/0			0/1	1/0		41/20	
Stewards department duties.....	12/8					0/2	0/1					1/3					12/13	
Handling cargo.....		1/0				0/2				0/2		0/1	0/2				1/5	
Fishing.....	2/2	1/0			3/0		1/0		0/2	2/0	18/0						22/4	
Drills.....																		
Passenger.....	2/0				0/3	0/1	0/2	0/1		6/8		7/1	0/1		0/2		2/8	
Other and unknown.....	1/2				2/2	0/8						8/7	0/1				24/28	
Location of vessel:																		
At dock.....			1/0				4/11	1/3	0/2	6/0		2/0	0/1	0/2	0/1	0/1	14/30	
At anchor.....			1/0				4/7	0/3		6/0		1/0	3/5				16/16	
Underway.....	60/35	2/0	18/3	0/7	10/12	1/0	1/3		13/14	4/1	52/3	1/4	3/3	0/1	1/3		172/88	
Part of body involved																		
Head and upper limbs.....	0/4			0/1	0/2	0/1	0/4	0/2		0/2		0/1	0/3	0/3	0/3		0/24	
Back and lower limbs.....	1/31	1/0	0/2	0/2	0/11	0/13	0/7	0/1	4/19		0/2	0/1	0/3	0/1	0/1		0/17	
Multiple injuries (internal and external).....																	8/83	
Death—heart.....												1/0					2/0	
Death—drowning.....	12/0	2/0	18/0	8/0	1/0	2/0			3/0	4/0		29/0	2/0				81/0	
Death—disease, other.....	43/0	1/0			2/0	8/0			13/0		30/0	2/0	4/0	1/0			112/0	

*Statistics concerning recreation and pleasure boating accidents are published in CG-187.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS*
(Not involving a Vessel Casualty)

	1 July 1965 to 30 June 1966 Fiscal year 1966 Cause of death	Nature of death																		
		Natural cause	Homicide	Str frde	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Str ck by object; falling, dropped or moving	Falls, recoil and aspiration	Str ck against cr. shield, or impact into object	Operating machinery and tools	Burns and scalds (other than electrical)	Heavy weather	Oxygenation, sprays, and sprays	Cg fln in lines, chains or w/rropes	Cr. brk, lacerations, bruise, and fracture	Alliterations and miscon-	Unknown or insufficient information
Totals.	392	204	5	8	—	3	4	—	13	106	12	15	2	4	4	—	—	—	—	2
18	Intoxication	202	201	1	8	—	2	2	—	1	1	1	—	1	—	—	—	—	—	—
203	Physical deficiency or handicap	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	Unsafe movement or posture	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	Psychological immaturity, insanity	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	Unsafe practice	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
72	Violation of law or regulation	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
73	Human errors	1	3	—	—	—	1	1	—	6	44	8	2	—	1	—	—	—	—	1
9	Decks—slippery or cluttered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
5	Weather conditions	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	Poor maintenance or housekeeping	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	Inadequate lighting	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	Inadequate rails or guards	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	Failure of equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	Inadequate supervision	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1	Inadequate life preservers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	Inadequate tools or equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	Inadequate protective equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	Improper use of tools or equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Types of vessels involved																				
42	Inspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
42	Passenger and ferry—large	30	—	4	—	—	—	1	—	—	7	—	—	—	—	—	—	—	—	—
19	Passenger and ferry—small	10	—	1	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—	—
131	Freight ships and barges	90	3	2	—	—	—	1	—	5	12	6	6	2	2	2	—	—	—	1
31	Tankships and barges	21	—	—	—	—	—	—	—	2	4	1	—	—	—	—	—	—	—	—
4	Public	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	Miscellaneous	2	—	—	—	—	—	—	—	2	1	—	2	—	—	—	—	—	—	—
57	Uninspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
57	Fishing	18	2	—	—	—	—	—	—	—	34	1	—	—	—	—	—	2	—	—
38	Tugs	18	—	1	—	—	—	1	—	—	17	—	1	—	1	—	—	—	—	—
20	Foreign	1	—	—	—	2	—	—	—	1	4	4	1	—	1	—	5	—	—	—
41	Miscellaneous	10	—	—	—	—	—	—	—	3	19	1	6	—	—	—	1	1	—	—
Time of day																				
233	Daytime	127	2	4	—	—	1	3	—	8	57	8	8	1	2	3	2	6	—	4
140	Nighttime	65	3	4	—	2	—	1	—	4	45	4	7	1	2	1	—	1	1	—
19	Twilight	12	—	—	—	—	—	—	—	1	4	—	—	—	—	—	—	—	—	—
Particulars of deceased																				
40	Papers of deceased:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
139	Licensed by Coast Guard	35	—	—	—	—	—	—	—	—	2	—	1	1	1	1	—	—	—	—
198	Documented by Coast Guard	105	1	3	—	—	—	2	—	4	20	2	2	—	—	—	—	—	—	—
115	No license or document	61	4	5	—	—	2	—	—	9	80	9	13	1	2	3	3	4	3	2
1	Other—unknown—foreign	3	—	—	—	1	2	—	—	4	1	—	—	1	—	—	—	—	—	—
43	Status or capacity on vessel:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39	Crewmember	27	5	—	—	—	—	—	—	5	11	8	7	1	1	1	—	—	—	—
282	Crewmember	3	2	3	—	2	4	—	—	6	78	4	6	1	3	1	2	3	2	2
28	Other	170	2	3	—	—	—	—	—	6	32	4	8	1	3	1	2	3	2	2
28	Activity engaged in:	4	1	—	—	—	—	—	—	3	12	3	8	—	—	—	—	—	—	—
160	Off duty	122	1	2	—	1	3	—	—	4	30	—	—	1	1	—	—	—	—	—
74	Dock department duties	23	—	—	—	1	1	—	—	4	32	4	8	1	1	—	1	1	—	—
23	Engine department duties	17	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—
9	Steward's department duties	6	1	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
23	Hauling cargo	2	—	—	—	1	—	—	—	2	3	4	6	1	1	—	—	2	—	—
23	Fishing	8	—	—	—	—	—	—	—	—	13	—	—	—	—	—	—	—	—	—
42	Drills	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38	Passenger	26	5	—	—	—	—	—	—	7	14	4	4	—	—	2	—	2	—	2
28	Other and unknown	2	1	—	—	—	—	—	—	4	18	1	7	2	2	3	—	6	1	2
126	Location of vessel:	53	4	—	—	3	4	—	—	4	67	1	2	2	2	1	2	1	—	2
51	At dock	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
215	At anchor	120	1	8	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—
28	Underway	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Part of body involved																				
28	Head and upper limbs	—	—	—	—	—	—	—	—	2	—	6	1	7	6	4	—	2	—	—
1	Back and lower limbs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	M iliole injuries (internal and external)	1	1	—	—	1	—	—	—	6	1	3	8	1	—	4	2	5	—	—
182	Death—heart	182	—	—	—	—	—	—	—	4	103	—	—	—	—	—	—	—	—	—
115	Death—drowning	2	6	—	—	—	—	—	—	1	—	2	2	—	—	—	—	—	—	—
38	Death—disease, other	20	4	1	—	—	—	—	—	1	—	2	2	—	—	1	—	—	—	—

*Statistics concerning recreation and pleasure boating accidents are published in CG-887.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*
(Not Involving a Vessel Casualty)

	1 July 1965 to 30 June 1966 Fiscal year 1966 Cause of injury	Nature of injury																		
		Slips and falls—bodily	Slips and falls—on gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and aspiration	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Cuts in lines, chains or wire ropes	Pinchings and crushing	Heavy weather	Oxygenation, straining and jettisoning	Oils, lubrications, bristles and paintbrushes		
Totals	1810	160	21	118	272	9	25	207	4	154	14	90	3	66	68	5	196	180	82	37
86	Intoxication	14	7	4	12	1	1	1	1	4	1	1	1	1	1	2	6	9	4	
16	Physical deficiency or handicap				4					2						2			4	
130	Unsafe movement or posture			2	8	1	1	1		3						1		1	1	
3	Psychological-immaturity, insanity																			
97	Unsafe practice	18			24	2	1	11	3	5	3	9	1	8	1		11			
	Violation of law or regulation																			
514	Human errors	80	14	17	116	3	10	132		81	6	45	2	37	37		55	80	73	17
165	Decks—slippery or cluttered	13		73	41		4	1		15		1	2			7	8			
125	Weather conditions	1		11	25	1			18		28		1	18	5	7	7	13		1
49	Poor maintenance or housekeeping	12		8	11			1		2	1		1	1		5	4		3	
30	Inadequate lighting	3		2	9		6			1						3	4			
8	Inadequate rails or guards	1			3		2									1				
94	Failure of equipment	2				1		53		4		10		2	1		4			
111	Inadequate supervision	1			11			1		5		7		11	5	3	13		1	
	Inadequate life preservers																			
1	Inadequate tools or equipment								6		1		1							
32	Inadequate protective equipment				1					3	3	3		2	3		15		3	
59	Improper use of tools or equipment								14	3	3					1	26		1	
	Types of vessels involved																			
230	Inspected vessels:																			
17	Passenger and ferry—large	17	1	31	40	1		42		22		10		1	7		24	19	7	6
	Passenger and ferry—small	2		1	6	1		1		2				3		1				
1233	Freight ships and barges	16	15	74	189	5	19	181	2	105	12	64	3	37	51	1	142	132	60	25
135	Tankships and barges	14	4	7	23				21		13	8	3	2	1	15	12	11	1	
36	Public	6		1					4		4	1	3		2	5	4	4	2	
45	Miscellaneous	2			7		1	11		4		1		2	3	5	9			
	Uninspected vessels:																			
53	Fishing	2		2	1	1	2	16		2		1		15	3	7			1	
42	Tugs	1	1	1	4	1	3	13		2		2		6	5	1	2			
5	Foreign								2	2										
14	Miscellaneous						1	2		6		1				1	3			
	Time of day																			
1282	Daytime	110	5	79	170	7	14	232	4	113	11	60	2	14	53	3	161	142	39	27
456	Nighttime	43	16	34	87	2	10	56		34	2	18	1	19	11	2	29	45	37	10
72	Twilight	7	5	15	1	1	9		7	1	6	3	4	4	6	2	6	2	6	
	Particulars of person injured																			
173	Papers of person injured:																			
	Licensed by Coast Guard	16	2	6	27	2	7	23		6	4	30	2	5	2	1	17	20	1	2
1473	Documented by Coast Guard	138	19	106	225	5	11	220	1	138	9	65	1	40	62	1	169	149	81	34
158	No license or document	6		6	20	2	6	42	1	10	1	5	21	4	3	10	20		1	
6	Other—unknown—foreign						1	3	2											
	Status or capacity on vessel:																			
18	Passenger	2		3	5	1			4		1					3				
11	Longshoreman—Harbor worker			2				5	1		1									
173b	Crewmember	158	21	115	260	8	23	280	3	147	13	88	3	63	66	5	188	178	82	37
43	Other			5		2	12		3		1		2	2		5	11			
	Activity engaged in:																			
331	Off Duty	46	18	14	68	5	1	17		29	3		3	10		19	35	55	8	
687	Deck department duties	52	3	52	102	2	17	171	1	58	6	9	39	19	4	85	54	5	8	
419	Engine department duties	32		14	52		4	58	1	35	7	61	3	10	16	1	49	60	6	10
251	Stewards department duties	27		31	35		1	18	1	22	15		15		21		30	23	16	11
14	Handling cargo			1	2			6	1		1					1	2			
34	Fishing			2	1	1		11		4				14			3	4		
13	Drills			1				4		2							8	2		
17	Passenger	2		3	4	1		12		3	1	1			2		6	9		
44	Other and unknown					2												9		
	Location of vessel:																			
629	At dock	61	20	31	90	6	13	107	3	43	4	38		22	18		60	55	43	15
218	At anchor	9	1	7	34	2	4	36		17	2	14	9	8	27		35	0	4	
983	Underway	90		80	148	1	8	168	1	94	8	38	3	35	42	5	109	99	30	18

See footnote at end of table.

**STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*—
Continued**

(Not Involving a Vessel Casualty)

Total injuries	July 1965 to 30 June 1966 Fiscal year 1966	Nature of injury																		
		Slips and falls—adders			Slips and falls—gangways			Slips and falls—on deck			Slips and falls—other			Falls from vessel—into water			Falls into holds or tanks			
		Slips and falls—adders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and straining	Cuts, lacerations, bruises and punctures	Altercations and misconduct	Unknown or insufficient information
133	Part of body injured:																			
100	Head and neck.	15	3	5	23			2	28		17		1				2	13	20	4
100	Eye and face.	2	1	2	4			18		7	13					6	11	21	1	
156	Arm and shoulder.	24	1	18	33	2	1	20		15	2	9	1	10			11	2	11	1
381	Hand.	17	1	18	32			45		27	10	13	1	26	56		94	9	2	4
242	Leg and hip.	20	5	17	48		2	72		28		7		7	3	1	14	12	2	6
288	Foot.	25	6	11	33		4	73		21	1	18		9	7		25	3	3	1
250	Back.	29	7	34	49	2	3	9		18		1		2	2	46	3	4	1	
88	Body—external.	7	1	3	15			11		2		27	1	1	2	2	88	6	10	2
125	Body—internal.	10	2	8	31	2	8	17		18	1	1		1	2		5	17	1	2
22	Hernia.			1				1		1										1
10	Multiple body injuries.	2		1	2		3			1										1
15	All other injuries.			1	3			3	4											2
Additional contributing factors to cause of injury																				
476	Human element.	33	3	27	60	4	5	44		33	2	14		18	15	1	66	47	100	4
22	Decks—slippery or cluttered.	3		10	6					1		1		1				1		2
42	Weather conditions.	5		10	4				7		1	3		2	4			4		2
11	Poor maintenance or housekeeping.	1		4					2		1			1						
7	Inadequate lighting.	1		4				1		1										
3	Inadequate rails or guards.								2											2
3	Failure of equipment.								12		1	1		4	2		3			
24	Inadequate supervision.																			
5	Inadequate tools or equipment.								3		2									
10	Inadequate protective equipment.									3		1								3
10	Improper use of tools or equipment.									5	1	18		3		1				
214	Hull structure.	11	4	73	63		2	5		21	1	11	1	3		3	17	14		2
134	Holds, hatches, tanks.	2		6	43		25		8		10		2		2		14	4		1
236	Ladders, gangways, stairs.	153	20		9	4			54		10	3	2	3	2		13	9	1	2
149	Masts, booms, cargo gear.	6	1	5	19				11		12		4		11	3	25	9	1	2
103	Watertight closures.	1		4	11				17		12		4		42	4	3	8	1	2
181	Living spaces.	12		17	63				9		24		1		13	4	15	18	13	3
37	Fishing equipment.				2				14		1				15				5	
22	Navigational equipment.	4		4	3				14		1		3		1				2	
31	Lifesaving equipment.				9	1			5		7		1		1			5	3	
2	Firefighting equipment.				1				1											
1	Communication equipment.																			
1	Yard repairs.																			
63	Improper loading, stowage and ventilation.	1		3	13		2		16	2	4		1	1			12	6		2
13	Ground tackle.								5		1			7	1		2	2	3	
25	Tugs and towing equipment.								16		1									
97	Fooring equipment.								58		5	1	1	19	1		6			1
193	Miscellaneous deck department equipment.	4	1	6	27				42	1	18	3	9	4	5		30	42		1
6	Main propulsion machinery.								1					1	2					
77	Boiler parts and accessories.	1			5				12		5	29		3			5	5		2
302	Auxillary machinery.	20		6	38				53		26	10	35	2	8	5		41	48	3
17	Electrical equipment.				1				16	1	12		18		8		1	6		7
147	Galley equipment.	2		16	19				16	1	12		18		8		23	21		11

*Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS*
(Not Involving a Vessel Casualty)

*Statistics concerning recreation and pleasure boating accidents are published in CG-387.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY

1 July 1964 to 30 June 1965
Fiscal year 1965

	Nature of casualty																
	Collisions: crossing meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fires—cargo	Explosion and/or fires—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure, equipment, all others	Grounding with damage	Grounding without damage	Fouling, capsizing, and flooding	Cargo damage	Material failure—structure and equipment	Material failure—machinery and engineering equipment	Casualty not otherwise classified	Total
Number of casualties	12	3	2	7	4	4	9	3	17	4	—	28	1	8	4	2	108
Number of inspected vessels involved	25	4	—	—	1	7	3	2	15	—	—	5	—	5	2	—	69
Number of uninspected vessels involved	17	3	2	2/5	3	2	9	6	21	35	—	55	1	4	4	3	172
Number of persons deceased/injured	17/25	3/4	1/1	2/5	2/2	1/8	0/12	0/8	11/25	34/1	—	45/15	1/0	4/5	1/5	3/0	125/16
Primary cause																	
Personnel fault:																	
Pilots—State																	
Pilots—Federal	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Licensed officer—documented seaman	4	—	—	—	—	—	1	1	—	—	—	1	—	1	—	—	8
Unlicensed—undocumented persons	3	1	2	—	2	2	1	2	5	1	1	1	—	1	1	1	18
All others	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14
Error in judgment—calculated risk					1	—	—	—	—	—	—	—	—	—	—	—	1
Restricted maneuvering room					1	—	—	—	—	—	—	—	—	—	—	—	1
Storms—adverse weather					1	—	—	—	—	2	8	1	—	—	—	—	12
Unusual currents					1	—	—	—	—	—	—	—	—	—	—	—	1
Sheer, suction, bank cushion					—	—	—	—	—	—	—	—	—	—	—	—	—
Depth of water less than expected					—	—	—	—	—	—	—	—	—	—	—	—	—
Failure of equipment					1	1	2	—	—	4	—	2	—	4	2	—	16
Unseaworthy—lack of maintenance					—	—	—	—	—	—	—	11	—	2	1	—	20
Floating debris—submerged object					—	—	—	—	—	—	1	1	—	—	—	—	1
Inadequate tug assistance					—	—	—	—	—	—	2	—	—	—	—	—	4
Fault on part of other vessel or person					—	—	—	—	—	—	—	—	—	—	—	1	3
Unknown—insufficient information					—	—	—	—	—	1	4	—	1	—	—	—	6
Type of vessel involved																	
Inspected vessels:																	
Passenger and ferry—large																	
Passenger and ferry—small					1	—	—	—	—	—	—	—	—	—	—	—	1
Freight	25	—	—	—	—	1	—	—	—	—	—	2	—	4	1	—	38
Cargo barge					—	—	—	—	—	—	—	10	—	—	—	—	10
Tankships		4	—	—	—	—	1	—	—	—	—	3	—	—	—	—	9
Tank barges		—	—	—	—	—	5	3	2	—	—	—	—	—	—	—	10
Public		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Miscellaneous		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Uninspected vessels:																	
Fishing	2	—	1	1	—	—	—	—	—	—	2	—	33	1	2	2	54
Tugs	8	—	1	4	1	2	5	3	1	—	—	9	—	—	4	2	35
Foreign	—	—	1	—	2	—	1	—	—	—	—	32	1	—	—	1	41
Miscellaneous	7	2	—	2	2	—	1	—	—	8	1	12	—	3	—	1	33
Particulars of person deceased/injured																	
Papers of deceased injured:																	
Licensed by Coast Guard	3/3	—	—	—	0/1	1/0	0/2	0/2	0/2	1/0	1/1	2/2	—	1/0	1/2	—	10/15
Documented by Coast Guard	8/16	1/4	—	—	2/4	1/2	1/6	0/10	0/6	6/21	1/6	6/10	—	0/1	0/2	—	17/22
No license or document	8/6	2/0	1/1	—	—	—	—	—	—	2/4	32/0	37/13	1/0	3/4	0/1	—	64/74
Other—unknown—foreign	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34/4
Status or capacity on vessel:																	
Passenger		—	—	—	—	—	—	—	—	—	—	—	1/0	—	—	—	1/1
Longshoreman—harbor worker		—	—	—	—	—	—	—	—	—	—	2/0	—	—	—	—	4/11
Crewmember	15/24	3/4	1/1	1/4	1/2	1/6	0/3	0/8	0/8	3/14	34/1	41/14	1/0	3/1	1/6	—	11/28
Other	2/1	—	—	—	—	—	—	—	—	—	—	1/1	—	0/1	—	1/0	9/24
Activity engaged in:																	
Off duty	5/8	0/2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15/14
Deck department duties	4/8	0/1	1/0	0/4	—	1/0	1/1	0/4	0/4	4/1	12/1	10/10	—	2/1	0/1	—	35/82
Engine department duties	4/6	1/0	—	—	—	—	—	—	—	0/2	16/0	1/0	—	1/0	1/4	—	25/22
Stewards department duties	2/2	0/1	—	—	—	—	—	—	—	—	4/0	—	—	—	—	—	6/8
Handling cargo	—	—	—	—	—	—	—	—	—	0/2	—	—	—	—	0/3	—	0/6
Fishing	—	—	—	—	—	—	—	—	—	1/0	—	20/3	—	—	—	2/0	24/3
Drills	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Passenger	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Other and unknown	2/1	2/0	0/1	1/1	1/1	0/5	0/3	0/5	3/16	—	—	9/2	—	1/1	—	1/0	20/36
Location of vessel:																	
At dock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
At anchor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1/6
Underway	17/25	3/4	1/0	2/5	2/2	—	0/4	0/3	4/2	34/1	—	45/14	1/0	2/0	0/5	2/0	113/85
Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Part of body involved																	
Head and upper limbs	1/2	0/1	0/1	0/3	0/1	0/1	—	0/2	0/3	0/1	0/4	0/1	0/5	—	1/0	0/1	2/28
Back and lower limbs	0/5	0/3	—	0/1	0/1	—	—	0/1	0/1	—	—	—	0/2	—	—	0/18	
Multiple injuries (internal and external)	0/18	—	—	—	0/1	1/1	3	0/10	0/4	1/21	—	—	0/10	—	1/8	0/4	3/80
Death—heart	12/0	2/0	—	1/0	1/0	—	—	—	—	—	1/0	32/0	—	—	—	1/0	1/0
Death—drowning	—	—	—	—	—	—	—	—	—	—	—	23/0	—	—	—	—	72/0
Death—disease, other	4/0	1/0	1/0	1/0	1/0	—	1/0	—	—	9/0	1/0	23/0	1/0	2/0	1/0	3/0	47/0

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*

	Nature of casualty															Total		
	Collisions; crossing meeting and overtaking	Collisions, while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all other	Explosion and/or fire— cargo	Explosion and/or fire— vessel's fuel	Explosion and/or fire— bunkers, pressure vessel structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified		
1 July 1964 to 30 June 1965 Fiscal year 1965																		
Number of casualties.....	147	166	25	307	278	18	25	11	116	242	286	41	10	91	158	28	2,179	
Number of vessels involved.....	427	378	51	438	387	24	26	11	123	314	309	41	12	91	160	46	3,095	
Number of inspected vessels involved.....	133	140	20	210	173	12	3	4	30	208	22	34	7	81	117	18	1,335	
Number of uninspected vessels involved.....	294	239	31	228	214	12	23	7	92	191	235	7	5	10	43	28	1,760	
Primary cause																		
Personnel fault:																		
Pilots—State.....	13	3	3	6	3					1	8					2	39	
Pilots—Federal.....	10	2	1	2	1					5	5						26	
Licensed Officer—Documented seaman.....	58	9	9	13	12		1	3	1	23	22	2			5	11	2	
Unlicensed—undocumented persons.....	61	20	11	20	42	9	3	2	6	32	13	12		2	1	8	231	
All others.....	18	15	4	17	9	9	1	2	17	13	15	7	1	3	3		141	
Error in judgement—calculated risk.....	6	25	1	45	7			1	26	34	3				1	5	155	
Restricted maneuvering room.....	14	23	1	60	16				14	43							173	
Storms—adverse weather.....		15		40	34				25	13	51	35	7	11	2	4	244	
Unusual currents.....	2	8		33	11				4	7	3						68	
Sheer, suction, bank cushion.....	13	5		10	1				3	6							38	
Depth of water less than expected.....	1			4	5				44	88							142	
Failure of equipment.....	6	20		22	11	5	1	2	15	24	18	17	5	1	63	114	316	
Unseaworthy—lack of maintenance.....	1	4		3	3	1	16	4	50	8	3	90		1	11	23	327	
Floating debris—submerged object.....		26		3	120				6		16				1		146	
Inadequate tug assistance.....	5	26		35	25				28	7	17			1		2	145	
Fault on part of other vessel or person.....	213	201	20	123	87	6			6	87	25	24		3	1	2	8	770
Unknown—insufficient information.....		3		2		3	4		26	1	2	9		3	2	2	57	
Additional contributing factors to cause of casualty																		
Hull and associated parts:																		
Plates and framing—steel.....	23	12	1	20	36	1			2	10	43	17		14	3	182		
Planks and framing—wood.....	2	2		1	17	3	2		3	5	60	1		2	1	96		
Tanks.....					6				4		4	2		3	1	2	21	
Holds and hatches.....									3		1	2			1		13	
Superstructure—bulkheads, decks.....	6		2	2					12	2	11	9		3	1	1	49	
Ladders, gangways, rails and guards.....	1			2	3						2			1		5	5	
Masts, booms, and cargo gear.....				2	1					2			16		2		23	
Rudder and stern tube.....				5					1		28	1	1	2		10	31	
Watertight closures.....									13								13	
Quarters and living spaces.....																		
Navigation and safety:																		
Lookout.....	27	8	6	1	9						1				1	1	53	
Docks—piers—congested area.....	20	111	1	190	34				20	44				1	4		426	
Channels—restricted areas.....	158	29	6	18	62				70	121	2	1		1	1		468	
Buoys— aids to navigation.....	1			2	19				14	26							62	
Excessive speed.....	19	5	12	3	6				2	5	3						60	
Poor visibility.....	26	4	20	7	11				34	28				1		1	131	
Steering gear.....	10	8		6	13				13	9	4			1	7		71	
Radar.....	6		6		1				3								16	
Fathometer—Depth of water.....					11				1	1	1			1	3	1	15	
Engine order telegraph.....	6		6						20	9							31	
Navigation equipment—other.....			1		1				2	1							1	
Navigation lights.....	12	8		2	6				33	35	80	3	2	4			161	
Navigation signals.....	120	2	15	2	9				34	45	4			3			1	
Weather (generally).....	7	28		61	26												250	
Currents and tides.....	12	46		91	34												269	
Lifesaving equipment.....		1							1					11	3		21	
Firefighting equipment.....									4					1			5	
Miscellaneous:																		
Yard repairs.....			1		2	1	1	8			3			3	2		21	
Improper loading or storage.....	2	2		1	20	1		6		30	6	13	9	2	3		98	
Tug assisting.....	133	69	8	136	66			1	65	24	35	1	1	2	2		543	
Anchor equipment.....	1	30	1	6	8		1	1	24	10	4	3	2	28	11		134	
Towing equipment.....	6	7		8	10				15	6	14			3			65	
Mooring equipment.....	2	16		22	18			3	10	6	12	3	1	1			100	
Fishing equipment.....	5			2				4	1	8		1			2		23	
Deck equipment—all other.....								1						1			3	

See footnote at end of table.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*—(Continued)

1 July 1964 to 30 June 1965
Fiscal year 1965

Nature of casualty															Total			
Collisions, crossing meeting and overtaking	Collisions, while unchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all other	Explosion and/or fires— cargo	Explosion and/or fires— Vessel's fuel	Explosion and/or fire— boilers, pressure vessels	Explosion and/or fire— structure, equipment, all others	Grounding with damage	Grounding without damage	Foundering, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified		
Engineering:																		
Main propulsion machinery	1	10		20	65	16	12	14	23	10	8	1		5	72	3	250	
Boiler parts and accessories														4	82	1	143	
Machinery - all other														1			24	
Tools and working spaces																	36	
Generators and other electrical equipment																	85	
Wiring, lights, controls																	41	
Steward's department:																	23	
Galley and steward's department equipment																		
Type of vessel																		
Inspected vessels:																		
Passenger and ferry large	2	5	10	6	10	1			7	20	1				10	1	64	
Passenger and ferry small	3	6	2	5	10	1			11	25	3			4	73	2	63	
Freight	28	63	8	113	70	9	3	13	35	25	25	4	5	58	8	2	613	
Cargo barge	14	1						2	13	5	1	3	1	13	21	3	79	
Tankships	21	20	4	21	33	1	2	3	18	67	1			2	2		231	
Tank barge	61	29	5	39	26	2	1	4	35	9	3	1		4	6	1	221	
Public	2	2			1	3			3	1			1	1	1		23	
Miscellaneous	2	9		8	13				1								41	
Uninspected vessels:																		
Fishing	34	23	2	6	37	11	4	47	57	11	82	6		37	3		360	
Tugs	147	82	12	115	106	7	3	17	72	26	65	1	2	5	11		673	
Foreign	31	69	11	24	17	6	1	11	24	49	6		3	1	3		256	
Cargo barge	53	39	2	73	36	2	1	1	24	10	47		3	3	3		296	
Miscellaneous	29	26	4	10	18	4		16	14	5	35		4		8		175	
Gross tonnage																		
300 tons or less	197	144	16	121	163	4	23	6	82	133	58	190	8	4	47	17	1,217	
Over 300 to 1,000 tons	96	59	11	104	69	3	1	14	72	22	47	1	1	4	7	13	526	
Over 1,000 to 10,000 tons	98	122	15	164	113	15	2	19	81	140	18	22	5	57	69	10	932	
Over 10,000 tons	36	64	9	49	42	2	1	7	28	89	2	10	2	26	37	6	400	
Length																		
Less than 100 feet	170	128	15	99	149	3	21	5	76	118	44	161	6	2	36	12	1,349	
100 to less than 300 feet	175	108	15	172	109	5	4	3	22	124	54	88	4	8	20	19	932	
300 to less than 500 feet	40	72	9	85	74	13	1	3	15	30	162	6	2	3	48	9	584	
500 feet and over	42	73	12	82	55	3		9	42	169	2	11	3	31	50	6	530	
Age																		
Less than 10 years	176	138	17	154	106	6	5	3	24	95	82	53	4	1	13	30	14	921
10 to less than 20 years	143	103	14	117	116	12	7	2	36	89	68	90	5	6	18	27	14	807
20 to less than 30 years	82	96	16	105	116	6	8	4	37	90	105	60	28	5	51	86	13	908
30 years and over	26	42	4	62	49	6	2	25	40	54	54	54	4	9	17	5	399	
Location of casualty																		
Inland—Atlantic	27	26	4	44	46	7	5	3	30	55	98	33	3	14	13	7	415	
Inland—Gulf	49	41	6	80	68	4	9	4	28	37	55	52		2	7	15	3	460
Inland—Pacific	9	26		33	39	2	2		23	47	35	37	5	1	17	18	8	39
Ocean—Atlantic	2	2	1	1	17	1	1	1	7	4	5	18	1	3	6	27	1	110
Ocean—Gulf	8	4	1	4	16	1	1	1	11	11	5	25	5	3	30	3	126	
Ocean—Pacific	5	2	2	3	13	2	1	1	3	11	4	14	12	4	9	16	5	107
Great Lakes	5	18	2	63	63	23	1	1	5	32	49	12	1	11	13	2	238	
Western rivers	35	27	12	45	22	1	2	1	6	26	10	25	2	2	5	6	212	
Ocean—other	1	1		2	4	1	1	3	3	3	6	1	2	5	1	1	31	
Foreign waters	6	19	3	32	30	3	2	1	13	23	1	5	18	19	2	1	180	
Time of day																		
Daylight	57	87	11	175	160	11	18	10	62	105	136	130	22	6	64	104	24	1,197
Nighttime	79	70	11	113	106	5	6	1	45	126	136	82	17	4	24	45	9	882
Twilight	11	9		19	6	2	1	0	11	14	2	2	3	3	15	3	5	100
Estimated losses																		
Vessel	7,940	3,349	681	2,309	2,917	160	623	90	7,094	8,136	8,260	3,86	25	697	2,671	253	45,710	
Cargo	319	181		323	54	401	2		352	1,081	1,453	44	265	293	1	1	4,789	
Property	2	531		2,300	435	1			245	5	167	34	15	11	118	11	3,870	
Vessels totally lost																		
Inspected	3	11	1	7	17	16	2	44	28	7	98		3	1	1	1	19	
Uninspected	14																242	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*
(Not Involving a Vessel Casualty)

Cause of injury	Nature of injury																																			
	Slips and falls—ladders			Slips and falls—gangways			Slips and falls—on deck			Slips and falls—other			Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises, and punctures	Altercations and misconduct	Unknown or insufficient information									
	1 July 1964 to 30 June 1965	Fiscal year 1965	Total	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; falling, dropped, or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Overexertion, sprains and strains	Cuts, lacerations, bruises, and punctures	Altercations and misconduct	Unknown or insufficient information														
Total	1,860	173	40	150	272	13	28	318	4	131	27	102	3	45	112	1	228	93	74	30																
81	Intoxication	13	10	5	12	1	1	2	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
22	Physical deficiency or handicap	2	3	5	12	22	3	6	2	2	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
177	Unsafe movement or posture	1	1	5	1	22	3	6	2	2	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
5	Psychological-immaturity, insanity	5																																		
188	Unsafe practice	39	2	8	23	2	1	20	4	8	9	17	2	13	11	1	17	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
744	Violation of law or regulation																																			
183	Human errors	77	15	22	106	4	15	137	2	73	6	38	1	27	61	1	45	57	50	11																
128	Decks—slippery or cluttered	12	5	85	48	15	22	12	1	21	18	8	1	18	1	1	23	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1				
39	Weather conditions	8	4	15	32	1	1	2	1	12	12	6	1	2	1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1				
16	Poor maintenance or housekeeping	12	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
5	Inadequate lighting	1	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
90	Inadequate rails or guards	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
74	Inadequate supervision	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
43	Inadequate life preservers																																			
22	Inadequate tools or equipment	1																																		
33	Inadequate protective equipment																																			
43	Improper use of tools or equipment																																			
Types of vessels involved																																				
274	Inspected vessels:	27	2	42	39	2	2	34	2	16	4	20	1	17	35	17	13	6																		
16	Passenger and ferry—large	27	3	6	2	1	1	2	2	16	4	20	1	17	35	17	13	6																		
1247	Passenger and ferry—small	111	33	88	180	6	23	218	1	92	16	59	2	21	76	1	169	65	52	24																
156	Freight ships and barges	25	3	11	20	1	2	22	1	11	2	16	2	6	6	6	15	5	8	4																
25	Tankships and barges	6	1	2	4	1	1	3	2	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
24	Public	1																																		
Uninspected vessels:																																				
38	Fishing	1	1	1	2	2	1	10	2	2	2	2	1	1	5	8	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
48	Tugs	1	3	7	2	2	1	19	3	1	2	2	1	1	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7	Foreign																																			
15	Miscellaneous	1																																		
Time of day																																				
1251	Daytime	103	13	94	176	7	22	238	4	86	21	70	3	32	84	1	163	72	35	27																
514	Nighttime	62	23	47	86	6	4	67	37	5	25	1	7	9	27	57	15	5	37	7																
85	Twilight	8	4	9	10	2	13	8	1	7	1	7	1	4	1	8	8	1	8	6	2	2	2	2	2	2	2	2	2	2	2	2				
Particulars of person injured																																				
162	Papers of person injured:	21	3	7	28	1	6	19	1	12	4	21	1	3	13	1	15	5	1	1																
1551	Licensed by Coast Guard	151	36	133	228	7	18	290	1	111	17	75	2	28	90	1	205	84	73	31																
129	Documented by Coast Guard	1	1	10	14	5	1	38	2	8	6	5	1	13	9	1	8	4	4	4																
8	No license or document																																			
Other—unknown—foreign																																				
20	Status or capacity on vessel:																																			
14	Passenger																																			
1811	Longshoreman—harbor worker	173	39	143	265	13	26	308	3	128	26	100	3	44	112	1	227	92	74	34																
5	Crewmember																																			
Activity engaged in:																																				
330	Off duty	58	35	21	74	3	10	10	20	51	8	13	2	50	6	11	18	14	48	2																
786	Deck department duties	54	4	66	105	9	20	200	2	57	2	30	16	52	3	36	48	1	107	37	5	41														
397	Engine department duties	37		20	57	4	52	1	20	13	1	2	2	16	5	2	28	62	13	6	6															
256	Stewards department duties	24	1	34	24	1	1	7	1	7	1	1	1	1	1	1	1	21	33	27	15	15														
10	Handling cargo																																			
18	Fishing																																			
15	Drills					</																														

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*—Continued

(Not Involving a Vessel Casualty)

Total Injuries	Nature of injury																		
	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects; failing, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinching and crushing	Heavy weather	Oxygenation, oxygen and helium	Cuts, lacerations, bruises, and punctures	Altercations and misconduct	Unknown or insufficient information
	1 July 1964 to 30 June 1965																		
	Fiscal year 1965																		
151	Part of body injured:																		
66	Head and neck	14	3	12	32	3	2											1	
169	Eye and face	2	1	25	36	1	1	32	1	1	4	2	1	1	8	4	24	6	
401	Arm and shoulder	21	4	20	30	1	1	56	1	18	23	1	1	10	15	66	13	13	
253	Hand	12	3	20	30	1	1	56	1	18	22	1	1	15	11	4	4	1	
308	Leg and hip	20	12	31	48	1	1	62	1	31	14	1	1	20	8	3	3	1	
239	Foot	35	7	17	35	1	1	78	1	9	6	1	1	8	3	20	11	1	
111	Back	44	3	19	41	1	1	9	1	9	6	1	1	2	1	1	2	5	
100	Body—external	10	5	11	23	1	1	11	1	6	1	1	1	1	4	2	4	1	
28	Body—internal	14	3	11	20	5	5	15	1	1	1	1	1	2	7	2	6	1	
8	Hernia	2	1	3	1	1	1	1	1	1	1	1	1	1	21	1	1	1	
16	Multiple body injuries	1	1	1	2	1	2	4	1	1	3	1	1	1	1	1	1	4	
	All other injuries	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Additional contributing factors to cause of injury																		
481	Human element	36	9	53	52	4	5	55	2	19	7	20	2	9	21	73	17	92	5
20	Decks—slippery or cluttered	1	11	4	7	1	1	1	1	1	1	1	1	1	2	2	1	1	
37	Weather conditions	4	2	9	7	1	1	4	1	1	1	1	1	1	1	1	1	1	
10	Poor maintenance or housekeeping	1	4	3	2				1										
7	Inadequate lighting	1	1	2															
6	Inadequate rails or guards																	2	
15	Failure of equipment	1	1	1	1			4	1	1	1	1	1	1	1	1	1	1	
15	Inadequate supervision	1	1	1	1			7	1	1	1	1	1	1	1	1	2	1	
2	Inadequate tools or equipment	1	1	1	1			3	1	1	1	2	1	1	1	1	2	1	
10	Inadequate protective equipment	1	1	1	2			3	1	1	1	1	1	1	1	1	2	1	
10	Improper use of tools or equipment	1	1	1	2			3	1	1	1	1	1	1	1	1	2	1	
3	Causes not otherwise classified								1										
119	Hull structure	4	45	31	2	2	2	2	11	3	2	2	1	14	3	2	1	1	
142	Holds, hatches, tanks	3	1	43	21	18	3	5	1	7	2	11	2	24	8	18	1	1	
282	Ladders, gangways, stairs	166	39	4	12	3	5	11	14	1	10	2	6	11	5	27	11	1	
164	Masts, booms, cargo gear	6	8	19	1	1	1	63	10	2	13	1	1	5	8	1	1	1	
108	Watertight closures	1	3	9	1	2	18	21	1	7	6	6	6	11	4	5	5	2	
155	Living spaces	10	21	60	1	5	2	2	21	7	6	6	6	6	11	4	5	2	
22	Fishing equipment	1	4	2	1	1	1	1	6	6	3	3	3	3	3	1	1	1	
18	Navigational equipment	1	1	5	5	5	3	3	3	3	3	3	3	3	3	4	2	1	
25	Lifesaving equipment																		
5	Firefighting equipment																		
	Communications equipment																		
59	Yard repairs																		
6	Improper loading, stowage, and ventilation	1	5	14	2	13	5	3	3	3	3	3	3	3	11	2	2	1	
26	Ground tackle					1	2	1	1	1	1	1	1	1	1	1	1	1	
146	Tugs and towing equipment					2	7	4	77	7	22	4	16	2	16	2	5	5	
131	Mooring equipment																		
12	Miscellaneous deck department equipment	2	9	20	2	34	10	4	5	10	10	22	1	1	42	9	9	3	
69	Main propulsion machinery	2	1	1	1	2	4	7	2	38	2	2	1	1	7	2	2	3	
225	Boller parts and accessories	12	9	45	5	36	1	15	10	22	1	11	1	1	2	2	2	5	
18	Auxiliary machinery																		
143	Electrical equipment	1	1	9	14	12	5	3	26	1	4	4	4	4	24	20	15	15	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

AD-A100 588

COAST GUARD WASHINGTON D C OFFICE OF MERCHANT MARINE--ETC F/G 13/10
STATISTICS OF CASUALTIES, 1979. (U)

DEC 80

USCG-M-1-81

UNCLASSIFIED

NL

2 of 2

A
2058



END
DATE
FILED
7-8-81
DTIC

STATISTICAL SUMMARY OF DEATHS ON BOARD COMMERCIAL VESSELS*
(Not Involving a Vessel Casualty)

	Natural cause	Nature of death																				
		Homicide	Suicide	Disappearance	Slips and falls—ladders	Slips and falls—gangways	Slips and falls—on deck	Slips and falls—other	Falls from vessel—into water	Falls into holds or tanks	Struck by objects, falling, dropped or moving	Exposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machinery and tools	Burns and scalds (other than electrical)	Electrical shock and burns	Caught in lines, chains or wire ropes	Pinch and crushing	Heavy weather	Overexertion, sprains, and strains	Cuts, lacerations, bruises, and punctures	Alterations and maladjustment	Unknown or insufficient information
1 July 1963 to 30 June 1964																						
	Fiscal year 1964																					
	Cause of death																					
Total		223	7	23	2	9	4	8	83	24	21	11	3	2	4	4						
19	Intoxication	4	1			2	1	2	6	1		2										
225	Physical deficiency or handicap	218	1	2				1	4													
1	Unsafe movement or posture		1	21	1		1	1	8													
30	Psychological																					
19	Unsafe practice									5		3										
1	Violation of law or regulation		1																			
86	Human errors		4		1	6	1	1	53	12	6	1										
21	Decks—Slippery or cluttered								2													
21	Weather conditions								6													
3	Inadequate lighting								2													
8	Inadequate rails or guards								2	1	5											
10	Failure of equipment		1						1	1	6	1						1				
18	Inadequate supervision								1	1	2	1				2						
7	Inadequate tools or equip								1	1												
2	Inadequate protective equip								1													
12	Improper use of tools or equip										2											
2	Miscellaneous causes								1		1											
Types of vessels involved																						
63	Inspected vessels:																					
63	Passenger and ferry—large	48	6	1	1				2	1	1	1										
27	Passenger and ferry—small	18							8		1											
157	Freight ships and barges	101	1	9	5	2	5	10	10	8	4	1										
43	Tankships and barges	24	1	3	2	2	1	6	1		3											
6	Public	2	1	2																		
3	Miscellaneous	1							1													
48	Uninspected vessels:																					
48	Fishing	14	2	1	1				27		2	1										
26	Tugs	8		1					16		1											
31	Foreign	3	1		1				8	9	6	1	1									
34	Miscellaneous	4	1	1				2	14	3	3	2			2	1						
Time of day																						
226	Daytime	118	4	11	2	5	4	41	14	11	7	3		2	3			1				
187	Nighttime	93	3	10	4	4	4	45	10	9	4				1							
22	Twilight	12		2				7		1												
Particulars of deceased																						
58	Papers of deceased:																					
58	Licensed by Coast Guard	45	1	3	1				3	4	1											
166	Documented by Coast Guard	103	4	13	7	4		6	18	3	2	4	1									
180	No license or document	72	2	7	2	1		2	61	8	15	4	1		2	2		1				
31	Other—unknown—foreign	3							11	9	4	2	1									
63	Status or capacity on vessel:																					
40	Passenger	49	5	1					8													
40	Longshoreman—barber	2							1	5	12	13	3		1	2						
328	Worker	2							1	2	2	2	1									
9	Crewmember	169	7	18	1	8	4	7	78	12	5	8	3		1	2		1				
9	Other	3							2	3												
187	Activity engaged in:																					
74	Off duty	115	6	17	1	4	4	3	34	1	2	2	1									
27	Deck department duties	23						3	30	8	2	4	1									
27	Engine department duties	16		1		2		1	2	2	2	2	1									
13	Stewards department duties	8							4													
31	Handling cargo								3	9	13	1										
27	Fishing	17	1						6		2		1									
55	Passenger	41	5	1					8													
21	Other and unknown	3							1	6	4	4	2									
160	Location of vessel:																					
40	At dock	64	2	6	5	4		6	29	14	16	8			2	4						
40	At anchor	13	1	1	1				16	3	1	2	1									
236	Underway	146	4	16	1	3		2	48	7	4	1	2					1				
Part of body involved																						
37	Head and upper limbs	2	2		4	2		2	3	13	7	1			1							
28	Back and lower limbs				1	1		3	4	8	8	1			2							
201	Multiple injuries	200																				
101	Death—heart																					
68	Death—drowning	23	5	14	1	1		1	82	1					2	1		1				
68	Death—disease, other				1	3		2	3	8	5	11	1									

STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*
(Not involving a Vessel Casualty)

	1 July 1963 to 30 June 1964 Fiscal year 1964 Cause of injury	Nature of injury																	
		Ships and falls— Injuries	Ships and falls— Gangways	Ships and falls— On deck	Ships and falls— Other	Falls from vessel— Into water	Falls into holds or tanks	Struck by objects; falling, dropped or moving	Inposure and asphyxiation	Struck against, crushed, bumped into objects	Operating machin- ery and tools	Burns and scalds (other than elec- trical)	Electrical shock and burns	Cuts in lines, chains, or wire ropes	Pinchings and entrapments	Heavy weather	Overshadowing, sprains and strains	Cuts, lacerations, burns and punctures	Aberrations and misconduct	Unknown or inci- pient informa- tion
Total	176	17	230	223	22	17	228	4	151	87	70	7	20	127	5	200	98	100	48
65	Intoxication	18	6	8	16	5	—	1	—	3	—	1	—	—	2	—	1	2	2
31	Physical deficiency or handi- cap	4	2	3	8	—	—	1	—	3	—	1	—	—	—	4	4	—	1
131	Unsafe movement or posture	5	—	4	7	1	—	5	—	2	—	—	—	—	1	103	—	—	—
8	Psychological-immaturity, in- sanity	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	1	1
141	Unsafe practice	20	1	4	26	5	2	28	—	2	5	9	3	4	9	—	9	4	1
921	Violation of law or regulation	86	6	111	95	1	5	147	2	87	16	31	21	84	—	52	47	94	33
64	Human errors	5	44	3	1	1	3	—	—	—	—	—	1	—	—	5	1	—	3
141	Deck—Slippery or cluttered	0	33	25	2	—	14	—	29	—	2	—	—	12	5	3	4	—	3
44	Weather conditions	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	Poor maintenance or house- keeping	3	—	18	10	—	—	1	—	2	—	1	1	—	—	—	4	4	—
14	Inadequate lighting	1	—	1	5	—	6	—	—	—	—	—	—	—	—	—	1	1	—
17	Inadequate rails or guards	4	2	—	3	1	1	—	—	1	—	—	1	1	2	—	—	2	—
78	Failure of equipment	2	—	1	6	—	2	45	1	4	2	7	1	1	2	—	4	5	1
80	Inadequate supervision	—	—	1	10	1	—	—	29	—	—	7	7	7	7	—	—	—	—
3	Inadequate life preservers	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—
50	Inadequate tools or equip- ment	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	Inadequate protective equip- ment	9	—	1	4	1	—	—	11	—	4	5	4	1	1	4	—	2	3
89	Improper use of tools or equipment	3	—	—	2	1	—	—	16	—	—	—	—	—	—	—	—	2	—
7	Miscellaneous causes	2	—	—	—	1	—	—	19	—	6	20	6	1	3	3	—	9	8
—	Types of vessels involved	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
276	Inspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	Passenger and ferry— large	31	2	61	27	—	2	28	—	23	6	6	2	3	15	2	10	11	16
1284	Passenger and ferry— small	2	—	4	3	—	—	—	—	2	1	—	—	—	1	—	—	—	12
166	Freight ships and barges	122	14	129	164	8	12	207	3	107	41	51	5	20	89	3	154	64	67
30	Tankships and barges	14	1	25	14	6	—	23	1	9	3	6	4	7	—	13	12	11	7
17	Public	1	—	4	5	—	—	7	—	3	1	1	—	—	—	3	2	3	—
52	Miscellaneous	3	—	—	—	—	—	6	—	1	—	—	—	—	1	4	1	—	1
42	Uninspected vessels:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Fishing	—	2	3	3	3	2	18	—	3	3	—	—	—	6	8	5	4	1
17	Tugs	1	—	3	3	3	2	11	—	1	2	5	—	—	5	3	2	1	—
—	Foreign	—	—	1	1	1	2	—	—	—	—	—	—	—	1	1	—	—	—
17	Miscellaneous	1	—	2	3	1	—	3	—	3	1	—	—	—	1	2	—	—	—
—	Time of day	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1290	Daytime	105	8	140	137	11	10	238	2	104	48	53	6	22	95	5	153	68	47
541	Nighttime	65	9	84	78	10	7	88	2	38	7	14	1	14	28	39	23	49	38
76	Twilight	5	—	6	8	1	—	17	—	9	2	3	3	4	—	8	4	4	2
174	Particulars of person injured: Paper of person injured:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1612	Licensed by Coast Guard.	18	2	16	25	3	2	26	—	10	11	19	1	2	10	—	19	6	2
118	Documented by Coast Guard.	154	15	201	183	14	11	271	4	131	40	47	6	26	106	5	176	85	96
3	No license or document	3	—	18	15	5	3	24	—	10	6	4	11	11	—	5	4	2	2
23	Other—unknown—foreign	—	—	—	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—
5	Status or capacity on vessel:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	Passenger	2	—	7	9	—	—	—	2	—	2	—	—	—	—	—	—	—	—
5	Longshoreman—harbor worker	—	—	—	—	—	—	—	4	—	—	—	—	—	—	—	—	—	—
1871	Crewmember	172	17	222	214	22	17	313	4	148	57	69	7	39	126	5	200	95	100
8	Other	1	—	1	—	—	—	4	—	1	—	—	—	—	—	—	—	—	1
375	Activity engaged in:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24	20	62
775	Off duty	70	15	46	65	9	—	11	1	24	1	1	—	—	—	29	46	3	101
414	Deck department duties	44	2	98	84	11	16	209	1	59	23	8	—	—	—	1	80	24	13
259	Engine department duties	41	—	35	50	—	1	50	1	36	33	44	7	3	22	1	54	24	6
17	Stewards, department duties	17	—	46	13	—	—	31	1	24	1	17	—	—	27	2	16	16	30
11	Handling cargo	—	—	—	—	—	—	8	—	—	—	—	—	—	2	1	—	—	—
33	Fishing	—	2	—	3	1	—	—	—	—	—	—	—	—	3	4	—	—	1
13	Drills	—	2	—	3	7	—	—	—	—	—	—	—	—	3	4	—	—	—
20	Passenger	2	—	6	7	—	—	—	—	—	—	—	—	—	1	—	—	—	—
7	Other and unknown	1	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
721	Location of vessel:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	81	54
123	At dock	78	14	59	75	13	7	147	1	48	16	30	1	19	35	—	77	81	54
1063	At anchor	5	2	14	14	3	1	25	—	5	5	5	1	15	—	12	6	5	2
—	Underway	90	1	157	134	6	9	180	3	100	36	35	5	19	77	5	111	58	41
—	Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27

**STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*—
CONTINUED**

		Nature of injury —Continued																	
1 July 1963 to 30 June 1964 Fiscal year 1964 Cause of injury		Slips and falls— ladders	Slips and falls— gangways	Slips and falls— on deck	Slips and falls— other	Falls from vessel— into water	Falls into holds or tanks	Struck by object— falling, dropping, or moving	Exposure and asphyxiation	Struck against crushed, impaled into object	Operating machin- ery and tools	Burns and scalds (other than elec- trical)	Cuts, lacerations, piercings and penetrations	Pinch and crushing	Heavy weather	Overexertion sprains and strains	Cuts, lacerations, piercings and penetrations	Alterations and misconduct	Unknown or inci- pient infec- tion
136	Part of body injured:																		
50	Head and neck	15	12	20	1	1	34	21	1	1	7	1	1	1	5	20	3		
175	Eye and face	4	4	26	3	1	25	1	1	1	5	5	2	12	4	4	1		
391	Arm and shoulder	16	4	29	17	2	1	31	10	5	7	1	1	1	8	12	4		
262	Hand	13	23	17	5	5	48	30	4	4	5	5	1	1	1	1	1		
323	Leg and hip	19	3	56	40	5	48	15	3	14	1	6	11	1	16	16	2		
227	Foot	37	4	28	41	1	33	7	3	14	1	6	7	1	1	15	1		
170	Back	32	2	41	35	4	3	10	12	1	1	3	1	1	74	1	1		
98	Body—external	21	3	17	25	2	3	24	12	1	1	22	1	1	2	6	1		
27	Body—internal	19	12	13	1	1	14	12	1	1	1	1	5	1	1	26	1		
15	Hernia	2	1	1	1	1	1	1	1	1	1	1	1	1	1	22	1		
13	Multiple body injuries	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	All other injuries																		
	Additional contributing factors to cause of injury																		
222	Human element	16	3	43	35	1	4	22	13	7	5	1	2	9	1	16	8	42	
18	Decks—slippery or cluttered	2	9	3	3	1	1	4	2	1	1	1	1	1	1	1	1	1	
37	Weather conditions	4	11	8	1	1	1	4	1	1	1	1	1	1	1	2	1	1	
12	Poor maintenance or house- keeping																		
2	Inadequate lighting	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	Inadequate rails or guards																		
1	Failure of equipment																		
14	Inadequate supervision	1	1	2	1	1	1	4	1	1	2	1	1	1	1	1	1	1	
19	Inadequate tools or equip.	6	4	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	
3	Inadequate protective equip.																		
19	Improper use of tools or equip.	2	1	2	1	1	1	5	1	1	1	1	1	1	1	2	2	2	
4	Causes not otherwise classified	12	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	
20	Hull structure	1	5	5	5	1	1	1	1	1	1	1	1	1	1	2	1	1	
82	Folds, hatches, tanks	4	6	26	26	3	10	14	1	4	5	1	1	1	4	11	4	4	
97	Ladders, gangways, stairs	49	7	4	8	3	1	6	12	1	1	1	1	12	10	15	5	4	
94	Masts, booms, cargo gear		5	10	1	1	1	9	3	1	1	1	1	1	1	1	1	1	
32	Watertight closures																		
124	Living spaces	7	11	40	3	1	1	10	1	16	1	1	1	1	26	9	4	4	
35	Fishing equipment																		
12	Navigational equipment																		
12	Lifesaving equipment	1	2	3	1	1	1	1	1	1	1	1	1	1	3	2	1	1	
5	Firefighting equipment																		
1	Communications equipment																		
4	Yard repairs																		
75	Improper loading, stowage, and ventilation	3	8	10	1	1	18	1	1	1	1	1	2	4	11	7	1	1	
15	Ground tackle	1	1	2	1	1	1	4	1	1	2	1	1	1	1	1	1	1	
20	Tugs and towing equipment																		
136	Mooring equipment	2	7	5	1	1	77	13	1	1	1	1	1	13	4	10	3	3	
121	Miscellaneous deck depart- ment equipment																		
5	Main propulsion machinery	7	11	12	5	1	31	5	16	1	1	1	1	5	18	10	10	10	
58	Boiler parts and accessories	1	1	1	1	1	9	4	1	24	1	1	1	1	5	2	1	1	
178	Auxiliary machinery	15	9	31	1	1	17	24	23	9	2	2	1	11	28	10	10	10	
21	Electrical equipment	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	
138	Valley equipment	4	21	3	1	1	23	1	9	1	1	1	15	14	14	12	12	12	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*

	Nature of casualty														Total					
	Collisions; crossing, meeting and over- taking	Collisions, while anchored, docking or undocking	Collision, fog	Collision with piers and bridges	Collision, all others	Explosion and/or fires— cargo	Explosion and/or fires— Vessel's fuel	Explosion and/or fire— Lofters, pleasure vessel	Explosion and/or fire— Structure, equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified			
1 July 1963 to 30 June 1964																				
Fiscal year 1964																				
Number of casualties	172	135	35	281	258	37	33	7	133	300	257	223	49	6	133	177	64	2,306		
Number of vessels involved	492	303	83	376	348	39	34	7	150	373	275	243	55	7	137	179	77	3,178		
Number of inspected vessels in- volved	165	124	29	209	130	29	8	6	42	100	202	30	42	6	117	154	22	1,484		
Number of uninspected vessels involved	327	179	54	167	209	10	26	1	106	213	73	213	13	1	20	25	55	1,004		
Primary cause																				
Personnel fault:																				
Pilots—State	12	3	9	4	2					2	3							1	33	
Pilots—Federal	2		3	1	1					1	2							1	14	
Licensed Officers—docu- mented Seaman	46	8	16	4	12		1	2	5	35	7	3					6	14	3	162
Unlicensed—undocumented persons	96	20	8	16	29		6		6	61	6	21					1	2	4	276
All others	34	17	10	8	17	15			15	12	6	4	2	1	6	6	6	2	154	
Error in judgment—calculated risk	12	24	5	60	15					32	50	2			3			1	213	
Restricted maneuvering room	26	34		85	23					24	38								230	
Storms—adverse weather	6	15	2	26	31					37	18	54	8	27	1	1			274	
Unusual currents	5	2		29	5					6	5	7		1					60	
Sheer, suction, bank cushion	13	1		5	1					7	5								32	
Depth of water less than expected										68	96	1							168	
Failure of equipment										36	15	18							343	
Unseaworthy—lack of main- tenance	9	14		26	9	2	1	2	17										230	
Floating debris—submerged object	1	1		1	2	6	25	3	80	5	2	95	3		20	26			272	
Inadequate tug assistance	8	11		33	13					1	2	7					1	2	1	94
Fault on part of other vessel or person	220	151	30	67	83	8	1		24	37	12	17					1		670	
Unknown—insufficient infor- mation	2	1				8			3		1	4	1		2	1	42	65		
Additional contributing factors to cause of casualty																				
Hull and associated parts:																				
Plates and framing—steel	2		2	16					1	5	1	36	18	31			1	110		
Planks and framing—wood				16					1	2	56	2				2	16		76	
Tanks				1	4	2			1		2	1	3					7		
Holds and hatches:																				
Superstructure—bulkheads decks						1	2	2	2			6	12	1	1			1	26	
Ladders, gangways, rails, and guards																		1	1	
Masts, booms, and cargo gear												1	1	11			2	15		
Rudder and stern tube												26	2						30	
Watertight closures												2							13	
Quarters and living spaces									10										11	
Navigation and safety:																				
Lookout	25	8	4	1	3					4									56	
Docks—piers—congested areas	21	62	1	126	10					24	35	1							288	
Channels—restricted areas	84	10	13	35	20					58	68	2					2		286	
Buoys— aids to navigation		3		2	15					19	15								54	
Excessive speed	25	4	25	6	5					1		1					4		71	
Poor visibility	10	3	32	6	8					20	22								110	
Steering gear	11	5	3	8	10					19	12	4	1	15	10				90	
Radar	3		9	1	1					3	3			1					21	
Barometer—depth of water										3									11	
Weather order telegraph	1	3		4	8					27	1	2							6	
Navigation equipment—other				4	3	2						1							46	
Navigation lights	25	8		1	13							1							48	
Navigation signals	123	10	18	4	3					1	43	24	37	2		2	16		173	
Weather (general)	9	21		67	34					1	21	13							256	
Currents and tides	8	19		57	7					2	16	13	14	10		1	13		136	
Lifesaving equipment												3	14						29	
Firefighting equipment												2	1	7					6	
Miscellaneous:																				
Yard repairs		3		1						12			1	1	2	8	1		32	
Improper loading or storage						24	3	2		2		20	5	6	4	2			57	
Tug assisting	174	74	17	123	79	3				85	23	20	2		2				622	
Anchor equipment	1	9	4	2	1					25	5	4	2		20	4	4		100	
Towing equipment	4	10		11	13					16	5	12	1		2		2		76	
Mooring equipment		2		4	10					10	4	18	4		1		5		58	
Fishing equipment	2				3					2	1	7			5		2		22	
Deck equipment—all other																				

STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*—Continued

		Nature of casualty—Continued																	
1 July 1963 to 30 June 1964 Fiscal year 1964		Collisions; crossing, meeting and over- taking	Collisions while anchored, docking or undocking	Collision, fog	Collisions with piers and bridges	Collisions, all others	Explosion and/or fire- carbo	Explosion and/or fire- vessel fuel	Explosion and/or fire- vessel's fuel	Explosion and/or fire- Boilers, pressure vessel	Explosion and/or fire- Structure, equipment, all others	Grounding with damage	Fouling, capsizing and flooding	Heavy weather damage	Cargo damage	Material damage— structure and machinery	Material damage— machinery and engineering equipment	Casualty not otherwise classified	Total
Engineering:																			
Main propulsion machinery	5	8		17	43	2	18	9	9	8	17	6	14	2	9	80	4	245	
Boiler parts and accessories																			
Machinery—all other																			
Tools and working spaces																			
Generators and other elec- trical equipment																			
Wiring, lights, controls																			
Steward's department:																			
Galley and steward's depart- ment equipment																		24	
Type of vessel																			
Inspected vessels:																			
Passenger and ferry—large	7	4	2	8	9	1	1	5	11	12	5	2	1	1	8	4	4	25	
Passenger and ferry—small	8	3	2	14	9	1	3	10	11	12	6	26	4	11	9	9	9	55	
Freight	27	56	11	118	56	20	5	17	60	121	5	2	2	19	22	1	1	75	
Cargo barge	10	11	3	8	11	3	4	2	6	11	4	6	3	3	44	4	4	55	
Tankships	24	28	2	31	24	3	1	22	28	51	4	1	1	1	6	2	2	75	
Tank barge	85	14	6	38	18	6	2	33	30	4	3	1	1	1	2	2	2	55	
Public	2	5	1	3	3	1	1	2	2	3	1	1	1	1	6	6	4	55	
Miscellaneous	2	3	2	4	4	1	1	2	4	1	1	1	1	1	1	1	1	55	
Uninspected vessels:																			
Fishing	45	27	3	6	49	1	20	1	39	87	7	8	2	10	18	37	471	570	
Tugs	155	54	16	94	76	2	1	1	25	67	20	40	4	7	4	2	2	264	
Foreign	43	56	23	22	19	4	3	2	2	28	36	4	7	1	10	10	10	148	
Cargo barge	55	12	5	39	41	3	3	2	2	19	7	20	7	7	1	1	1	148	
Miscellaneous	29	30	7	6	24	3	8	8	12	8	21	1	1	1	1	1	1	148	
Gross tonnage																			
300 tons or less	224	108	26	108	163	4	29	1	113	186	41	178	0	1	26	26	128	128	
Over 300 to 1,000 tons	123	88	16	70	66	2	2	5	24	55	24	52	0	8	22	22	88	88	
Over 1,000 to 10,000 tons	119	104	33	147	82	25	2	5	107	140	18	16	0	10	22	22	104	104	
Over 10,000 tons	26	53	8	61	37	6	3	7	46	70	8	16	1	1	1	1	1	148	
Length																			
Less than 100 feet	195	90	22	88	136	4	28	1	106	188	30	170	5	1	31	31	66	66	
100 to less than 300 feet	212	72	26	120	108	9	1	1	13	105	41	64	2	14	19	19	77	77	
300 to less than 500 feet	52	85	26	70	51	22	1	4	22	57	116	6	6	6	35	35	35	35	
500 feet and over	33	56	9	98	53	4	4	1	7	56	96	3	1	1	41	41	74	74	
Age																			
Less than 10 years	178	89	25	109	91	12	6	1	30	106	88	48	12	2	19	25	1,880	1,880	
10 to less than 20 years	153	96	27	125	112	16	14	2	54	110	57	75	18	4	66	77	31	31	
20 to less than 30 years	85	63	20	68	87	7	6	3	24	85	78	55	6	51	50	50	10	10	
30 years and over	76	55	11	74	58	4	8	1	32	78	44	70	7	1	18	18	11	11	
Location of casualty																			
Inland—Atlantic	44	46	9	50	47	8	9	3	25	74	84	45	2	15	20	20	7	7	
Inland—Gulf	49	25	6	54	46	5	5	5	23	53	45	28	1	41	41	41	2	2	
Inland—Pacific	8	21	5	34	47	5	6	1	29	53	27	33	1	1	1	1	1	1	
Ocean—Atlantic	10	1	3	12	12	3	2	2	14	5	4	21	1	1	1	1	1	1	
Ocean—Gulf	4	3	2	1	15	2	5	9	14	14	4	19	1	1	26	26	10	10	
Ocean—Pacific	9	8	1	3	21	3	1	1	6	28	1	35	12	1	37	37	2	2	
Great Lakes	10	8	74	21	21	2	1	1	5	35	44	6	2	1	11	11	4	4	
Western rivers	29	6	6	36	26	4	2	2	6	25	8	42	1	1	10	10	9	9	
Ocean—other																			
Foreign waters	9	25	2	28	21	4	1	1	5	23	36	1	4	1	22	21	5	5	
Time of day																			
Daylight	82	79	29	165	147	23	21	5	70	190	141	116	28	4	95	97	1,300	1,300	
Nighttime	86	51	6	94	100	11	10	2	86	102	105	91	17	3	61	61	96	96	
Twilight	4	5	22	11	3	2	7	14	11	10	4	2	2	2	19	19	4	4	
Estimated losses—units of thousands																			
Vessel	5,000	1,710	8,410	1,651	2,475	404	2,353	146	10,802	12,088	11	6,145	479	366	1,194	3,294	1,114	11,210	
Cargo	604	4	103	21	71	682	28	15	48	9,388	18	1,084	92	367	61	10	22	369	
Property	8	81	1,636	285			15	50	50	28	10	10	10	2	32	45	45	369	
Vessels totally lost																			
Inspected	1	6	1	3	28	1	22	1	9	53	113	2	1	1	1	2	36	36	
Uninspected	26	6	4	3	28	1	22	1	9	53	113	2	1	1	1	2	36	36	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

STATISTICAL SUMMARY OF DEATHS/INJURIES DUE TO A VESSEL CASUALTY*

1 July 1963 to 30 June 1964

Fiscal year 1964

Nature of casualty															
Collision; crossing meeting and overtaking	Collision, while anchored, docking or undocking	Collision, fog	Collisions, all others	Explosion and/or fire—cargo	Explosion and/or fire—vessel's fuel	Explosion and/or fire—boilers, pressure vessel	Explosion and/or fire—structure equipment, all others	Grounding with damage	Grounding without damage	Founding, capsizing, and flooding	Heavy weather damage	Cargo damage	Material failure— structure and equipment	Material failure— machinery and engineering equipment	Casualty not otherwise classified
Number of casualties.....	16	3	6	4	6	7	12	2	10	42	2	1	6	7	137
Number of inspected vessels involved.....	1	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Number of uninspected vessels involved.....	18	7	11	6	6	5	58	1	10	30	0	2	2	10	197
Number of persons deceased/injured.....	10/0	2/5	12/0	6/5	5/1	7	9/34	1/1	32/36	4/1	0/1	80/8	0/2	2/8	16/0
Primary cause															
Personnel fault:															
Pilots—State.....															
Pilots—Federal.....															
Licensed officer—documented seaman.....	3	2	5	1	1	3	4	1	2	4	1	1	1	1	13
Unlicensed—undocumented persons.....	3	2	3	1	3	3	3	3	2	1	1	1	1	1	20
All others.....	9	3	1	1	1	1	1	1	1	1	1	1	1	1	3
Error in judgement—calculated risk.....															
Restricted manuevering room.....															
Storms—adverse weather.....															
Unusual currents.....															
Sheer, suction, tank cushion.....															
Depth of water less than expected.....															
Failure of equipment.....															
Unseaworthy—lack of maintenance.....															
Floating debris—obstructed object.....															
Inadequate tug assistance.....															
Fault on part of other vessel or person.....															
Unknown—Insufficient information.....															
Type of vessel involved															
Inspected vessels:															
Passenger and ferry—large.....	1	1	2				1	1							6
Passenger and ferry—small.....		2					2								11
French.....															
Cargo barge.....								2							15
Tankships.....								13							13
Tank barges.....	4			1	20										30
Private.....						6									6
Miscellaneous.....															
Uninspected vessels:								43							46
Fishing.....	3	1	3	3	3	13		1	6	3	53		1	2	99
Tug.....	5		6	1	1	1		1	2	1	18				34
Freight.....	3	5		1	1	1					1		3		14
Miscellaneous.....	7	6	5	1	4	7		4		8	2	6			50
Particulars of person deceased/injured															
Papers of deceased injured:															
Identified by Coast Guard.....															
Documents by Coast Guard.....															
No license or document.....	10/8	2/5	7/2	6/5	3/1	6/0	1/21	3/0	12/1	0/1	7/0	0/2	0/3	0/4	13/10
Other unknown—foreign.....	0/1		5/0		1/0	0/5		20/38	4/1	69/8	2/0	0/4	1/1	13/0	146/89
Status or capacity on vessel:															11/8
Passenger.....	1/0	2/2	2/0	0/2				1/5							11/10
Longshoreman—harbor worker.....								5/3							12/20
Crewmember.....	5/5	0/3	9/6	5/1	2/0	8/28	1/1	19/2	3/1	65/7	0/2	2/0	2/6	2/8	134/75
Other.....	4/4		1/0	6/3			0/1	11/19	1/0	6/0	0/1	2/1	3/0	3/0	34/28
Activity engaged in:															
Off-duty.....	0/3	0/3	0/2					0/11							13/20
Deck department duties.....	3/0		4/1	4/1	2/0	6/7	1/0	4/2	1/1	0/1	26/3	0/1	4/2	1/2	50/21
Engine department duties.....	0/2							1/2	0/1	5/2	3/1	0/1	0/5		9/14
Stewards department duties.....								1/0	3/0						4/3
Handling cargo.....															6/4
Fishing.....	1/0		3/0		1/0	0/2		0/2	2/0	36/3		2/0	0/4		47/7
Drills.....													0/3		4/0
Passenger.....	1/0		2/0	0/2				1/5		5/1					0/5
Other and unknown.....	5/4	2/2	3/0	6/3	3/3	0/7	17/30	1/0	3/0						9/8
Location of vessel:															44/61
At dock.....								0/3							
At anchor.....								4/5	3/18	1/0	6/13	1/1	2/2	0/4	33/47
Underway.....	10/8		12/6	6/5	6/1	3/0	6/14	0/2	22/10	4/6	67/77	0/2	2/0	1/1	32/29
Unknown.....													2/5	1/2	126/57
Part of body involved															
Head and upper limbs.....	0/3		0/2	0/3	3/0	2/1	0/4	0/7	0/1	1/0	0/2	2/5	0/2		8/28
Back and lower limbs.....	1/1	0/3	0/1	0/1	0/3	0/1	0/1	0/5	0/1	0/1	0/2	0/3	0/2		1/24
Multiple injuries (internal and external).....	0/3	0/1	0/3	0/1	3/1	2/20	1/1	2/4	2/0	0/5	1/3	0/2	2/3	13/66	
Death—heart.....															3/0
Death—drowning.....	0/0	2/0	9/0	6/0	1/0	2/0		6/0	30/20	2/0	49/1	2/0	1/0	6/0	86/1
Death—disease, other.....		0/2	3/0		1/0					28/1		2/1	7/0		77/24

* Statistics concerning recreation and pleasure boating accidents are published in CG-357.

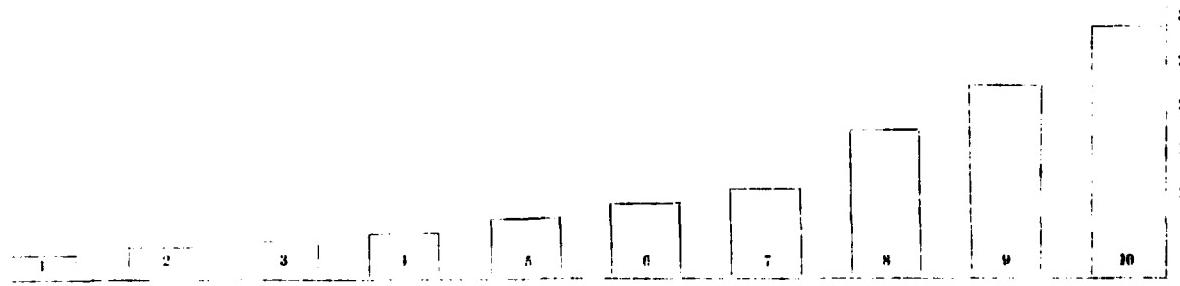
STATISTICAL SUMMARY OF PERSONNEL INJURIES ON BOARD ALL COMMERCIAL VESSELS*
(NOT INVOLVING A VESSEL CASUALTY)
 1 July 1962-30 June 1963

Type of casualty	Cause of injury										Miscellaneous causes				
	Intoxication	Physical deficiency	Unskillful handling (running, jumping, etc.)	Psychological (immaturity, insanity)	Unskillful practice	Law violation	Human errors (carelessness)	Poor maintenance (housekeeping)	Inadequate lighting	Inadequate tools, gear, etc.	Failure approved equipment or material	Super vision inadequate	Lack of tools/equipment	Lack of protective gear	
167. Slips and falls - Ladders...	6	3	4	1	5	1	96	4	11	2	4	6	2	2	2
35. Slips and falls - Gangways...	10	1	12	1	1	1	15	2	50	1	2	1	5	3	
254. Slips and falls - On deck...	16	6	12	1	1	1	119	26	50	1	2	2	2	2	
67. Slips and falls, other - Same level	2	1	12	1	1	1	37	2	9	1	1	3	1	3	
3. Falls from vessel - Into water...	3	1	1	1	1	1	2	2	1	1	6	11	2	2	
9. Falls from vessel - Other...	9	1	1	1	1	1	2	2	1	1	21	12	4	2	
14. Falls into hold, tank,...	14	1	1	1	1	1	53	4	3	1	2	3	2	2	
126. Falls - Other, Different level...	5	4	1	1	1	1	75	4	2	1	16	11	3	2	
143. Struck by - Falling object...	5	1	1	1	1	1	31	1	2	1	2	2	1	1	
70. Struck by - Flying object (mooring lines-Cargo gear),...	1	1	1	1	1	1	12	1	4	1	1	1	1	1	
32. Struck by - Moving object (other than vessel)...	1	1	1	1	1	1	5	1	10	1	2	2	2	2	
2. Struck by - Boat or vessel...	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Exposure...	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
152. Asphyxiation...	5	1	1	1	1	1	90	22	2	1	2	1	6	2	
3. Struck against...	5	1	1	1	1	1	1	1	1	1	1	1	1	1	
50. Cargo handling...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
45. Operating machinery - Tools...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
45. Burns...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
39. Scalds...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Electric shock and burns...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
56. Caught in lines and chains...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
126. Pinching - Crushing...	1	2	1	1	1	1	12	1	1	1	1	1	4	4	
1. Heavy weather...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
87. Over exertion...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
119. Sprains and strains...	2	1	1	1	1	1	12	1	1	1	1	1	2	2	
101. Cuts, punctures, etc...	1	1	1	1	1	1	1	1	1	1	1	1	10	10	
5. Galley accidents...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
90. Fights...	5	1	1	1	1	1	1	1	1	1	1	1	6	7	
25. Not otherwise classified...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1835. Totals	53	21	173	1	102	1	933	90	87	2	15	2	72	68	
													3	84	
													14	37	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

1. Injuries not otherwise classified (26)
2. Operating machinery, tools, cargo gear (58)
3. Fights and misconduct (90)
4. Burns, scalds, electric shock, asphyxiation (92)
5. Cuts, punctures, galley accidents (100)
6. Falls into water, cargo holds and different levels (132)
7. Caught in lines, crushed, pinched (182)
8. Overexertion, sprains, strains (206)
9. Overexertion, sprains, strains (206)
10. Slips and falls on ladders, gangways and on deck (323)

Total injuries	
Crewmembers	1,792
Passengers	20
Longshoremen and harbor workers	12
Others	5
Total	1,835



STATISTICAL SUMMARY OF CASUALTIES TO COMMERCIAL VESSELS*

1 July 1962-30 June 1963

	Ground-ing	Found-er-ing, capiz- ing, sinking	Colli-sions with vehi-cles	Colli-sions with objects other than vehi-cles	Fires and explo-sion	Heavy weather dam-age	Mat-terial fail-ure	Cargo dam-age; no dam-age to vehi-cle	Undeter-mined or insuf-fi- cient infor-ma-tion	Casualty not other- wise classi-fied	Total
Number of casualties.....	511	247	270	476	182	80	282	10	5	21	2,134
Number of vessels involved.....	582	270	790	571	197	51	282	11	3	29	2,726
Number of inspected vessels involved.....	316	35	321	329	92	44	229	10	2	17	1,353
Number of uninspected vessels involved.....	236	235	459	245	135	7	62	1	1	11	1,372
Types of vessels involved											
Passenger:											
Vessels over 65'—Inspected.....	14	2	20	17	5	2	15			3	78
Vessels not over 65'—Inspected.....	16	20	17	14	13		5	1		1	87
Freight:											
Vessels—Inspected.....	154	4	117	100	28	22	125	6		8	630
Barges—Inspected and uninspected.....	42	65	88	80	4	3	4	3		3	290
Tank:											
Ships.....	84	2	55	62	9	12	49			5	278
Barges.....	33	4	100	54	14	2	2			2	211
Public:											
Towing:											
Inspected.....	2	2	9	3			4				20
Uninspected.....	48	52	138	80	29	1	11	1		4	364
Fishing:											
Motorboats (commercial) not over 65' in length uninspected.....	80	91	82	33	67	4	21		1	2	380
Foreign.....	58	1	123	37	8	1	1			2	281
Miscellaneous.....	8	21	21	16	18	1	8				63
Vessels totally lost:											
Inspected.....	10	12		5	7						36
Uninspected.....	50	120	23	15	60	2	2	1			279
Lives lost in vessel casualties											
Passengers:											
Inspected.....											2
Uninspected.....			2								
Crew members:											
Inspected.....			39	1		2					42
Uninspected.....	3	71	54		14	1	4		1		148
Longshoremen/Shore workers:											
Inspected.....						12					12
Uninspected.....							4				4
Others:											
Inspected.....			2	4	7		1				1
Uninspected.....						4					17
Lives lost by types of vessel involved											
Inspected vessels.....		30	1		14		1				55
Fishing vessels—Uninspected.....	4	42	1		15	1	1		1		55
Tugs—Uninspected.....	1	18	17		1		1				36
Foreign-flag vessels.....			41								41
Other uninspected vessels.....		17	2		2		0				27
Total deaths.....	5	116	62		32	1	9		1		226
Injured and incapacitated over 72 hours											
Passengers—Inspected vessels.....			1		1						2
Passengers—Uninspected vessels.....						6					6
Crew—Inspected vessels.....	4		3		1		2				13
Crew—Uninspected vessels.....	1	4	10	1	25	2	1		1		31
Longshoremen/Harbor workers—Inspected vessels.....						1		3			4
Longshoremen/Harbor workers—Unspec-i- fied vessels.....							1				5
Others—Inspected.....			1		2		5				5
Others—Uninspected.....	1			2	2						5
Primary cause											
Personnel fault:											
Pilots—State, Federal, foreign.....	26	1	73	15		10	1	20		2	117
Licensed officer.....	62	3	50	16	10	1	20		2		175
Documented seaman.....	1		6	2	4		2		1		16
Unlicensed, undocumented, all others.....	30	24	134	48	35		15	1	3		287
Error in judgment—Calculated risk.....	79	2	62	60		2	50	24	2		245
Weather.....	66	56	37	103	2	50	24	6			382
Currents.....	7	9	15	60			1				72
Sheer, suction, bunk cushion.....	6		9	6			1				21
Denth of water less than expected.....	123	1	1	3			1				129
Failure of equipment.....	47	37	35	24	61		150	2			368
Unseaworthy—Lack of maintenance.....	3	36	5	1	54		22	1			173
Unknown—Insufficient information.....	4	3			14		3		3		27
Fault on part of other vessel or person.....	23	27	353	116	16		5	1		11	362
Floating debris—Submerged object.....	6	11		98							115
Total vessels involved.....	582	270	790	571	197	81	282	11	3	28	2,726

* Statistics concerning recreation and pleasure boating accidents are published in CG-337.

STATISTICAL SUMMARY OF DEATHS ON BOARD UNINSPECTED COMMERCIAL VESSELS*
(NOT INVOLVING A VESSEL CASUALTY)

1 July 1962-30 June 1963

Deaths (Total)	Type of casualty	Cause of death															
		Intoxication	Physical deficiency	Falls from vessel (tripping, jumping, etc.)	Psychological (immaturity, insanity)	Injury - fracture	Law violation	Human errors (carelessness)	Weather conditions	Poor maintenance (housekeeping)	Inadequate lighting	Inadequate rails, guardrails, etc.	Failure - unapproved equipment or material	Supervision inadequate	Life preservers insufficient	Lack of tools/equipment	Lack of protective gear	Miscellaneous causes
30	Natural Causes																
1	Homicide																
5	Suicide																
2	Disappearance																
1	Slips and falls - Ladders																
3	Slips and falls - Gangways																
	Slips and falls - on deck																
	Slips and falls - Other - same level																
73	Falls from vessel - into water	15	4	1	6				32	11	1				1	1	1
2	Falls from vessel - Other														2		
4	Falls into hold, tank																
	Falls - Other - Different Level																
5	Struck by - Falling Object																
1	Struck by - Flying Object (Mooring lines - Cargo gear)																
1	Struck by - Moving Object (Other than Vessel)																
	Struck by - Boat or vessel Exposure																
4	Asphyxiation														2		
1	Struck against														1		
1	Cargo handling																
2	Operating machinery - Tools																
Burns																	
Seals																	
1	Electric shock																
2	Caught in lines																
	Punching - crew/dive																
	Heavy weather																
	Over exertion																
	Sprains and Strains																
	Cuts, punctures, etc.																
	Galley accidents																
	Fights																
	Unknown causes not otherwise classified																
Number of deaths																	
Crewmembers														112			
Passengers														9			
Longshoremen/Harbor workers														12			
Others														6			
Total														139			
TOTALS	16	4	1	7	2			41	11	1	2		6	2	6	1	

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

DEATHS

In the summary of DEATHS on board inspected and uninspected commercial vessels it can be seen by the attendant tabulation that a total of 226 persons lost their lives as a result of casualties to vessels. The disappearance of the molten sulphur carrier, the *Marine Sulphur Queen*, accounted for the greatest single loss, with a total of thirty-nine persons missing and presumed drowned. There were five casualties involving explosions and fires on board tank ves-

sels or tank barges killing twelve shore workers and one crew member. One person was killed when a towing shackle on board a freighter suffered a material failure while being used with a nylon hawser.

Collisions involving American and Foreign vessels took a total of forty-one lives on board the foreign vessels. The most significant casualty being the collision involving the Norwegian tank vessel *Boheme* and the un-inspected tug *Bonnie D* pushing four tank barges in the Mississippi River north of New Orleans. As a result of this casualty twenty crew members on

the tank vessel perished. Two other collisions involving American cargo vessels and Foreign fishing vessels in international waters took a total of sixteen lives, on the foreign vessels, eight in each collision.

Deaths as a result of casualties to fishing vessels resulted in the loss of sixty-five lives. The most significant casualty in this class of vessel was the foundering of the F/V *Midnight Sun* which accounted for eleven lives lost. Foundering, capsizing and sinkings accounted for the largest loss of life on board fishing vessels where forty-two persons perished. Fifteen persons

STATISTICAL SUMMARY OF DEATHS ON BOARD INSPECTED COMMERCIAL VESSELS*
(NOT INVOLVING A VESSEL CASUALTY)

1 July 1962-30 June 1963

Deaths (total)	Type of casualty	Cause of death															
		Intoxication	Physical deficiency	Faulty movement (running, jumping, etc.)	Psychological (immaturity; insanity)	Unsafe practice	Law violation	Human error (carelessness)	Weather conditions	Poor maintenance (housekeeping)	Inadequate lighting	Inadequate rails, guards, etc.	Failure approved equipment or material	Failure unapproved equipment or material	Supervision inadequate	Life preservers insufficient	Lack of tools/equipment	Miscellaneous cause
181	Natural causes																
1	Homicide																
16	Suicide																
8	Disappearance																
2	Slips and falls—Ladders																
2	Slips and falls—Gangways	1															
2	Slips and falls—On deck	1															
	Slips and falls—Other—same level																
26	Falls from vessel—Into water	9		1	1	3		9	2							1	
1	Falls from vessel—Other							1									
12	Falls into hold, tank							1		11							
1	Falls—Other—different level							1		1							
4	Struck by—Falling object						3		1								
1	Struck by—Flying object (mooring lines, cargo gear)							1									
1	Struck by—Moving object (other than vessel)							1									
	Struck by—Boat or vessel																
5	Exposure	1	1				2			1					1		
1	Asphyxiation																
1	Struck against																
	Cargo handling																
1	Operating machinery—Tools																
	Burns																
	Scalds																
	Electric shock																
	Caught in lines																
	Pinching—Crushing																
	Heavy weather																
	Over exertion																
	Sprains and strains																
	Cuts, punctures, etc.																
	Galley accidents																
1	Fights	1															
1	Unknown causes—Not otherwise classified	1															
267	Totals	14	1	1	1	10		28	3				2	1			

*Statistics concerning recreation and pleasure boating accidents are published in CG-357.

were killed as the result of fire and explosions while another eight persons died as the result of other casualties such as groundings and collisions.

In addition to the twenty lives lost in the *Boheme-Bonnie D* tragedy already mentioned, uninspected tugs and towboats were involved in casualties resulting in the death of an additional thirty-eight persons. The foundering of the *Gwendoline Steers* on Long Island Sound claiming the lives of nine crew members was another significant casualty involving an uninspected tug. Four more foundlings accounted for the death of eight

persons while a capsizing of a tug while towing resulted in the loss of one more life. Eight collisions involving pleasure vessels and tugs with tows claimed another thirteen lives.

Deaths on board inspected and un-inspected commercial vessels that did not involve a casualty to a vessel totaled 406 lives. The category, natural causes, accounted for the greatest number of deaths and totaled 211. Personal accidents, such as slips and falls, falls into water, falls into cargo holds, and asphyxiation accounted for 162 deaths.

Deaths not involving casualty to vessel	406
Natural causes	211
Homicide	2
Suicide	21
Disappearances	10
Personal accidents	162
Deaths involving casualty to vessel	226
Groundings	5
Foundering, capsize- ings and sinkings	116
Collisions	62
Fires and explosions	32
Other	11
Total deaths	632

